

Gloeckner



YEAR-AROUND
CHRYSANTHEMUM
MANUAL

1955



CHRYSANTHEMUM MANUAL



The "New Look"
in Chrysanthemums
for
1955

Short Disbuds

**SEE OPPOSITE PAGE
FOR INFORMATION ON
HOW TO GROW THEM**

Your *Gloeckner* representatives have the scientific as well as the commercial experience to give you the service you wish in planning your requirements. They are all well versed in the culture of the chrysanthemum.

It is a *Gloeckner* service to make available the latest cultural information on this crop. Our interest in you and your crops by no means ends with the sale, as we are more than anxious to have the materials we sell, grow and prove profitable.

Gloeckner

**15 EAST 26th STREET
NEW YORK 10, N. Y.
(AT MADISON SQUARE)
LExington 2-4197**

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TERMS OF SALE

Fifty rooted cuttings of each variety is the minimum that can be supplied. More than 50 of a variety must be in multiples of 50.

Any changes or cancellation of chrysanthemum orders must be received at least 30 days before shipping date.

Every effort is being made to deliver stock which is free from pests, but purchases must be made with the understanding that we assume no responsibility for losses which may result from same.

To facilitate deliveries, cuttings will be shipped on Monday and Tuesday of each week.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

The Fred C. Gloeckner Co., Inc., warrants to the extent of the purchase price that seeds, bulbs and plants sold are as described on the container, within recognized tolerances. Seller gives no other or further warranty, express or implied.

Year-Around Flowering of Chrysanthemums

SHORT DISBUD CULTURE

Short disbuds are something new in the culture of chrysanthemums. In one square foot of bench area you can produce twelve blooms with 18- to 24-inch stems in about twelve weeks. Four crops a year can be produced. These short disbuds have the approval of the retail trade because they can be used by the retailer in many different ways. Yoder Brothers have been experimenting with short disbud culture for the past year and have had many complimentary remarks about them. The disbuds are packed in flat carnation packs with twelve blooms per bunch.

Cuttings are benched directly and spaced 6 x 6 inches, with three stems per plant, or 6 x 4 inches, with two stems per plant. During the winter, the closer spacing with two stems per plant may be advisable because it is difficult to get three heavy breaks at this season. Apply one to two weeks of long days before soft pinching. This culture is very similar to pot plant culture. When planting October 1 to February 1, use two weeks of long days. The rest of the year use only one week. After pinching, apply short-day treatment until the buds show color.

All other cultural factors should be similar to year-around flowering. Remember this is a 60 degree crop. However, after color shows, drop the temperature to 55 degrees whenever possible.

Depending on the distance of planting, sucker the shoots to two or three stems. After buds are fairly large, disbud each stem to one flower.

Many varieties will fit into the short disbud schedule but at present the biggest problem is to determine which varieties will perform the best at various seasons of bloom. See chart below for preferred varieties in the spring and fall.

VARIETIES PREFERRED FOR SPRING AND FALL

MAY FLOWERING				NOVEMBER FLOWERING			
WHITE	YELLOW	BRONZE & RED	PINK	WHITE	YELLOW	BRONZE & RED	PINK
Shasta	Blazing Gold	Mayford Triumph	Ind. Pink	Shasta	Yel. Shasta	Ivanhoe	Pandora
Little America	Yel. Shasta	Amber Bright	Bluechip	Little America	Yel. Ivanhoe	Copperhead	Dark Norma
White Norma	Yel. Ivanhoe	Ivanhoe	Criterion	White Norma	Susanne Miller	Br. Pandora	Pink L. I. Beauty
Whitetop	Golden Herald	Ind. Bronze	Portrait	L. I. Beauty	Harvest Golden	The Titan	Almega
Ind. White	Harvest Golden		Mary Garden	Belray	Ind. Yellow	Red Rolinda	Ind. Pink
	Ind. Yellow			Ind. White	Klondike	Amber Bright	
					Goldsmith	Ind. Bronze	
					Highlander	Paragon	
						Br. Goldsmith	



Short disbuds spaced 6 x 6 inches produce twelve blooms per square foot.



Year-Around Flowering of Chrysanthemums

Since the advent of daylength and temperature control, we have seen chrysanthemum cut flowers on the markets every month since 1946, thanks to our never-tiring research workers in various federal and state institutions. Season has been eliminated, and the flowering time can be accurately controlled.

Response Group

Prior to year-around flowering of chrysanthemums, we referred to varieties as to their natural flowering date. Now that year-around flowering is in general use, we refer to a variety as to its response to short-day treat-

ment. When we say 9 week response, we mean that it will bloom 9 weeks after the short-day treatment is started. A 13-week group requires 13 weeks after short-day treatment is started, and so on with all the other response groups.

Daylength Control

When chrysanthemums are grown around the year, it is very necessary that we know when to apply shade or light to make the plants respond as we desire. The following schedule will give you the proper dates for lighting and shading for each response group.

YEAR-ROUND LIGHTING AND SHADING SCHEDULE

Response Group	Shading to Stop in Fall	Lighting to Start in Fall	Shading to Start in Spring	Lighting to Stop in Spring
7 week	Aug. 29	July 18	Apr. 11	May 30
8 week	Sept. 5	July 25	Apr. 4	May 23
9 week	Sept. 12	Aug. 1	Mar. 28	May 16
10 week	Sept. 19	Aug. 8	Mar. 21	May 9
11 week	Sept. 26	Aug. 15	Mar. 14	May 2
12 week	Oct. 3	Aug. 22	Mar. 7	Apr. 25
13 week	Oct. 10	Aug. 29	Feb. 28	Apr. 18
14 week	Oct. 17	Sept. 5	Feb. 21	Apr. 11

Lighting

To prevent formation of flower buds, the light intensity must be 10 foot-candles.

When lighting an entire house, the lamps should be installed in the ridge of the house. Usually we figure that it requires $1\frac{1}{2}$ watts per sq. ft. of area covered; that includes benches and walks. For smaller installations, the spacing given below will be satisfactory for a bench 42 inches to 48 inches wide:

60-watt lamps in a reflector, spaced 4 feet apart, 2 to 3 feet above the tops of the plants.

100-watt lamps in a reflector, spaced 6 feet apart, 2 to 3 feet above the tops of the plants.

Lights must be used according to the schedule above. It has been found that best results are secured by interrupting the night. Begin lighting at 10 p.m. for the number of hours shown below:

ADDITIONAL LIGHTING SCHEDULE

- 2 Hours during the months of **August, April** and **May**.
- 3 Hours during the months of **September, October** and **March**.
- 4 Hours during the months of **November** and **February**.
- 5 Hours during the months of **December** and **January**.



Year-Around Flowering of Chrysanthemums

Shading

Use a good durable **Black Cloth** which when applied will reduce the light intensity to 2-foot candles or less. More light intensity than this will result in delayed flowering and unevenness of bloom.

The cloth should be applied at 5 p.m. and removed at 8 a.m. Continue covering each evening on pompons until the latest buds show color and most of the flowers are well developed. For large flowering varieties, shading can be discontinued after all flowering buds have attained the diameter of approximately one-half inch.

Be sure that covering is complete on all benches shaded, as any leaks in light will cause uneven spots in the bench at blooming time.

Black cloth should be applied each evening. Missing one night a week will give fair results, but delayed flowering results when cloth is not applied each evening.

Temperature Control

For bud formation, a minimum temperature of 60-65 degrees should be maintained. During the growing period, a night temperature near 60 degrees is ideal. When black cloth treatment is started, raise the night temperature to 60 degrees until color shows and then drop to 52 to 55 degrees. Excessive high temperatures prohibit the bud development, and during seasons of night temperatures above 90 degrees, it is suggested that the black cloth be raised after sunset and lowered again in the morning before daylight. This cooler temperature hastens the development of the buds.

Temperature regulation becomes a problem to the grower who is growing a single bench of chrysanthemums in a cool house. A simple method is to apply black cloth, allowing the cloth to drop to the floor on each side of the bench and then turn on the heat lines under the bench. This will trap the heat under the cloth and raise the temperature sufficiently to set buds.

Interrupted Lighting

You get quality when you control the spray formation in pompons. The control is easy and consists of inter-

rupting the lighting. It will give you no more work but does take a little more planning. The control gives you a spray with a more open head; the spray is more uniform; the flowers are larger, and the color is more intense.

In timing a crop which is to receive an interrupted-lighting treatment, we must start the short-day treatment earlier than normally, advancing the date by the number of long days which will be used to interrupt the short-day period; for example: if the short-day treatment were to start on January 15 and continue to flowering. The interrupted-lighting treatment is set up for 10 short days followed by 10 long days. Short days would be given the plants from January 5 to 15, followed by 10 long days until January 25 and then short days to flowering. Remember that the total number of short days is the same as given in the schedule.

Use of Interrupted Lighting Only on 8, 9, and 10-Week Response Varieties

Week response	Number of short days followed by 10 long days
8 week	9 short days
9 week	10 short days
10 week	11 short days

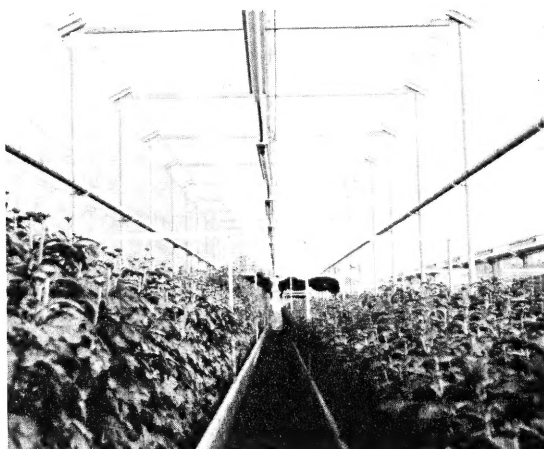
An interrupted-lighting treatment of 10 short days, 10 long days, then short days to flowering has made it possible to improve the quality of pompons by improving the spray formation; now this same treatment can be used on certain standard varieties where quality is poor because of open centers. Best to try interrupted lighting on a limited scale until you know how to handle this treatment.

Much research on interrupted lighting is now being done to find the exact number of short days and long days for each response group. We feel that this information is very valuable for growers who are flowering 8, 9 and 10-week varieties during January, February and March in Florida.

Year-Around Flowering of Chrysanthemums



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A single line of fluorescent lighting tubes may be used to light two benches as pictured in the greenhouse above.



THE MAP ABOVE WILL ASSIST YOU IN LOCATING THE LATITUDE IN WHICH YOUR GREENHOUSE IS LOCATED. YOU NEED THIS INFORMATION TO USE THE FLOWERING SCHEDULES THAT FOLLOW ON THE NEXT PAGES.

CHRYSANTHEMUM MANUAL

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Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 2, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 8	Aug. 29	Sept. 5 —Sept. 26	no	14 Week
			Aug. 29—Oct. 3	no	13 Week
			Aug. 22—Oct. 10	no	12 Week
			Aug. 15—Oct. 17	no	11 Week
			Aug. 8 —Oct. 24	no	10 Week
35-40°	Aug. 15	Sept. 5	Sept. 5 —Sept. 26	no	14 Week
			Aug. 29—Oct. 3	no	13 Week
			Aug. 22—Oct. 10	no	12 Week
			Aug. 15—Oct. 17	no	11 Week
			Aug. 15—Oct. 24	no	10 Week
30-35°	Aug. 22	Sept. 12	Aug. 29—Oct. 3	no	13 Week
			Aug. 22—Oct. 10	no	12 Week
			Aug. 22—Oct. 17	no	11 Week
			Aug. 22—Oct. 24	no	10 Week
25-30°	Aug. 29	Sept. 19	Aug. 29—Oct. 10	no	12 Week
			Aug. 29—Oct. 17	no	11 Week
			Aug. 29—Oct. 24	no	10 Week

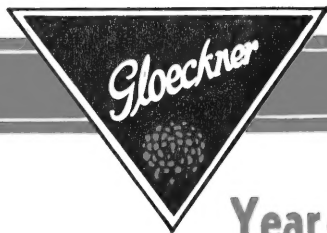
*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Debutante	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 9, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 15	Sept. 5	Sept. 5 —Oct. 3	no	14 Week
			Aug. 29—Oct. 10	no	13 Week
			Aug. 22—Oct. 17	no	12 Week
			Aug. 15—Oct. 24	no	11 Week
			Aug. 15—Oct. 31	no	10 Week
35-40°	Aug. 22	Sept. 12	Sept. 5 —Oct. 3	no	14 Week
			Aug. 29—Oct. 10	no	13 Week
			Aug. 22—Oct. 17	no	12 Week
			Aug. 22—Oct. 24	no	11 Week
			Aug. 22—Oct. 31	no	10 Week
30-35°	Aug. 29	Sept. 19	Aug. 29—Oct. 10	no	13 Week
			Aug. 29—Oct. 17	no	12 Week
			Aug. 29—Oct. 24	no	11 Week
			Aug. 29—Oct. 31	no	10 Week
25-30°	Sept. 5	Sept. 26	Sept. 5 —Oct. 17	no	12 Week
			Sept. 5 —Oct. 24	no	11 Week
			Sept. 5 —Oct. 31	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chaftanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chaftanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon

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Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 16, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 15	Sept. 5	Sept. 5 —Oct. 10	no	14 Week
			Aug. 29—Oct. 17	no	13 Week
			Aug. 22—Oct. 24	no	12 Week
			Aug. 15—Oct. 31	no	11 Week
			Aug. 15—Nov. 7	no	10 Week
35-40°	Aug. 22	Sept. 12	Sept. 5 —Oct. 10	no	14 Week
			Aug. 29—Oct. 17	no	13 Week
			Aug. 22—Oct. 24	no	12 Week
			Aug. 22—Oct. 31	no	11 Week
			Aug. 22—Nov. 7	no	10 Week
30-35°	Aug. 29	Sept. 19	Aug. 29—Oct. 17	no	13 Week
			Aug. 29—Oct. 24	no	12 Week
			Aug. 29—Oct. 31	no	11 Week
			Aug. 29—Nov. 7	no	10 Week
25-30°	Sept. 5	Sept. 26	Sept. 5 —Oct. 24	no	12 Week
			Sept. 5 —Oct. 31	no	11 Week
			Sept. 5 —Nov. 7	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chaffanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chaffanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Or. Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Portrait Criterion Rose Masf'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 23, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 22	Sept. 12	Sept. 5 —Oct. 17	no	14 Week
			Aug. 29—Oct. 24	no	13 Week
			Aug. 22—Oct. 31	no	12 Week
			Aug. 22—Nov. 7	no	11 Week
			Aug. 22—Nov. 14	no	10 Week
35-40°	Aug. 29	Sept. 19	Sept. 5 —Oct. 17	no	14 Week
			Aug. 29—Oct. 24	no	13 Week
			Aug. 29—Oct. 31	no	12 Week
			Aug. 29—Nov. 7	no	11 Week
			Aug. 29—Nov. 14	no	10 Week
30-35°	Sept. 5	Sept. 26	Sept. 5 —Oct. 24	no	13 Week
			Sept. 5 —Oct. 31	no	12 Week
			Sept. 5 —Nov. 7	no	11 Week
			Sept. 5 —Nov. 14	no	10 Week
25-30°	Sept. 12	Oct. 3	Sept. 12—Oct. 31	no	12 Week
			Sept. 12—Nov. 7	no	11 Week
			Sept. 12—Nov. 14	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Or. Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM JANUARY 30, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 29	Sept. 19	Sept. 5 —Oct. 24	no	14 Week
			Aug. 29—Oct. 31	no	13 Week
			Aug. 29—Nov. 7	no	12 Week
			Aug. 29—Nov. 14	no	11 Week
			Aug. 29—Nov. 21	no	10 Week
35-40°	Sept. 5	Sept. 26	Sept. 5 —Oct. 24	no	14 Week
			Sept. 5 —Oct. 31	no	13 Week
			Sept. 5 —Nov. 7	no	12 Week
			Sept. 5 —Nov. 14	no	11 Week
			Sept. 5 —Nov. 21	no	10 Week
30-35°	Sept. 12	Oct. 3	Sept. 12—Oct. 31	no	13 Week
			Sept. 12—Nov. 7	no	12 Week
			Sept. 12—Nov. 14	no	11 Week
			Sept. 12—Nov. 21	no	10 Week
25-30°	Sept. 19	Oct. 10	Sept. 19—Nov. 7	no	12 Week
			Sept. 19—Nov. 14	no	11 Week
			Sept. 19—Nov. 21	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Or. Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 6, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 5	Sept. 26	Sept. 5 —Oct. 31	no	14 Week
			Sept. 5 —Nov. 7	no	13 Week
			Sept. 5 —Nov. 14	no	12 Week
			Sept. 5 —Nov. 21	no	11 Week
			Sept. 5 —Nov. 28	no	10 Week
35-40°	Sept. 12	Oct. 3	Sept. 12—Nov. 7	no	13 Week
			Sept. 12—Nov. 14	no	12 Week
			Sept. 12—Nov. 21	no	11 Week
			Sept. 12—Nov. 28	no	10 Week
30-35°	Sept. 19	Oct. 10	Sept. 19—Nov. 7	no	13 Week
			Sept. 19—Nov. 14	no	12 Week
			Sept. 19—Nov. 21	no	11 Week
			Sept. 19—Nov. 28	no	10 Week
25-30°	Sept. 26	Oct. 17	Sept. 26—Nov. 14	no	12 Week
			Sept. 26—Nov. 21	no	11 Week
			Sept. 26—Nov. 28	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Param't	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Or. Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

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CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 13, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 12	Oct. 3	Sept. 12—Nov. 7	no	14 Week
			Sept. 12—Nov. 14	no	13 Week
			Sept. 12—Nov. 21	no	12 Week
			Sept. 12—Nov. 28	no	11 Week
			Sept. 12—Dec. 5	no	10 Week
35-40°	Sept. 19	Oct. 10	Sept. 19—Nov. 14	no	13 Week
			Sept. 19—Nov. 21	no	12 Week
			Sept. 19—Nov. 28	no	11 Week
			Sept. 19—Dec. 5	no	10 Week
30-35°	Sept. 26	Oct. 17	Sept. 26—Nov. 14	no	13 Week
			Sept. 26—Nov. 21	no	12 Week
			Sept. 26—Nov. 28	no	11 Week
			Sept. 26—Dec. 5	no	10 Week
25-30°	Oct. 10	Oct. 31	Oct. 10—Nov. 21	no	12 Week
			Oct. 10—Nov. 28	no	11 Week
			Oct. 10—Dec. 5	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America
YELLOW	S		Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Lollipop Pippin Yel. Param't	Barcarole Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Orch. Queen
	P	Br. Riviera Topaz Merrymaker	Red Heritage Galaxy Or. Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Riviera Rosalind	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Rose Mast'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 20, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 19	Oct. 10	Sept. 19—Nov. 21	no	13 Week
			Sept. 19—Nov. 28	no	12 Week
			Sept. 19—Dec. 5	no	11 Week
			Sept. 19—Dec. 12	no	10 Week
35-40°	Sept. 26	Oct. 17	Sept. 26—Nov. 21	no	13 Week
			Sept. 26—Nov. 28	no	12 Week
			Sept. 26—Dec. 5	no	11 Week
			Sept. 26—Dec. 12	no	10 Week
30-35°	Oct. 10	Oct. 31	Oct. 10—Nov. 21	no	13 Week
			Oct. 10—Nov. 28	no	12 Week
			Oct. 10—Dec. 5	no	11 Week
			Oct. 10—Dec. 12	no	10 Week
25-30°	Oct. 17	Nov. 7	Oct. 17—Nov. 28	no	12 Week
			Oct. 17—Dec. 5	no	11 Week
			Oct. 17—Dec. 12	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM FEBRUARY 27, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Sept. 26	Oct. 17	Sept. 26—Nov. 28	no	13 Week
			Sept. 26—Dec. 5	no	12 Week
			Sept. 26—Dec. 12	no	11 Week
			Sept. 26—Dec. 19	no	10 Week
35-40°	Oct. 3	Oct. 24	Oct. 3—Dec. 5	no	12 Week
			Oct. 3—Dec. 12	no	11 Week
			Oct. 3—Dec. 19	no	10 Week
30-35°	Oct. 17	Nov. 7	Oct. 17—Dec. 5	no	12 Week
			Oct. 17—Dec. 12	no	11 Week
			Oct. 17—Dec. 19	no	10 Week
25-30°	Oct. 14	Nov. 14	Oct. 24—Dec. 5	no	12 Week
			Oct. 24—Dec. 12	no	11 Week
			Oct. 24—Dec. 19	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P Acclaim Cotillion Wh. Snowcrop Yukon Satellite	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Yellow Acclaim Goldtone Yellow Satellite Goldie Corsair	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P Holiday Christmas Star	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P Debutante	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 5, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 3	Oct. 24	Oct. 3 —Dec. 5	no	13 Week
			Oct. 3 —Dec. 12	no	12 Week
			Oct. 3 —Dec. 19	no	11 Week
			Oct. 3 —Dec. 26	no	10 Week
35-40°	Oct. 17	Nov. 7	Oct. 17—Dec. 12	no	12 Week
			Oct. 17—Dec. 19	no	11 Week
			Oct. 17—Dec. 26	no	10 Week
30-35°	Oct. 24	Nov. 14	Oct. 24—Dec. 12	no	12 Week
			Oct. 24—Dec. 19	no	11 Week
			Oct. 24—Dec. 26	no	10 Week
25-30°	Oct. 31	Nov. 21	Oct. 31—Dec. 12	no	12 Week
			Oct. 31—Dec. 19	no	11 Week
			Oct. 31—Dec. 26	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P Acclaim Cotillion Wh. Snowcrop Yukon Satellite	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Yellow Acclaim Goldtone Yellow Satellite Goldie Corsair	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P Holiday Christmas Star	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P Debutante	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloectner

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 12, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 10	Oct. 31	Oct. 10—Dec. 12	no	13 Week
			Oct. 10—Dec. 19	no	12 Week
			Oct. 10—Dec. 26	no	11 Week
			Oct. 10—Jan. 2	no	10 Week
35-40°	Oct. 24	Nov. 14	Oct. 24—Dec. 19	no	12 Week
			Oct. 24—Dec. 26	no	11 Week
			Oct. 24—Jan. 2	no	10 Week
30-35°	Oct. 31	Nov. 21	Oct. 31—Dec. 19	no	12 Week
			Oct. 31—Dec. 26	no	11 Week
			Oct. 31—Jan. 2	no	10 Week
25-30°	Nov. 7	Nov. 28	Nov. 7 —Dec. 19	no	12 Week
			Nov. 7 —Dec. 26	no	11 Week
			Nov. 7 —Jan. 2	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P Acclaim Cotillion Wh. Snowcrop Yukon Satellite	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chaffan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Yellow Acclaim Goldtone Yellow Satellite Goldie Corsair	Highlander Omega Gold Medal Yellow Galaxy	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P Holiday Christmas Star	Red Heritage Galaxy Orange Galaxy	Thelma	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orch. Queen Orchid Queen
	P Debutante	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 19, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 17	Nov. 7	Oct. 17—Dec. 26	no	12 Week
			Oct. 17—Jan. 2	no	11 Week
			Oct. 17—Jan. 9	no	10 Week
35-40°	Oct. 31	Nov. 21	Oct. 31—Dec. 26	no	12 Week
			Oct. 31—Jan. 2	no	11 Week
			Oct. 31—Jan. 9	no	10 Week
30-35°	Nov. 7	Nov. 28	Nov. 7 —Dec. 26	no	12 Week
			Nov. 7 —Jan. 2	no	11 Week
			Nov. 7 —Jan. 9	no	10 Week
25-30°	Nov. 21	Dec. 12	Nov. 21—Dec. 26	no	12 Week
			Nov. 21—Jan. 2	no	11 Week
			Nov. 21—Jan. 9	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Highlander Omega Gold Medal Yellow Galaxy	Yellow Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Red Heritage Galaxy Orange Galaxy	Thelma	Orange Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM MARCH 26, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Oct. 24	Nov. 14	Oct. 24—Jan. 2	no	12 Week
			Oct. 24—Jan. 9	no	11 Week
			Oct. 24—Jan. 16	no	10 Week
35-40°	Nov. 7	Nov. 28	Nov. 7 —Jan. 2	no	12 Week
			Nov. 7 —Jan. 9	no	11 Week
			Nov. 7 —Jan. 16	no	10 Week
30-35°	Nov. 14	Dec. 5	Nov. 14—Jan. 2	no	12 Week
			Nov. 14—Jan. 9	no	11 Week
			Nov. 14—Jan. 16	no	10 Week
25-30°	Nov. 28	Dec. 19	Nov. 28—Jan. 2	no	12 Week
			Nov. 28—Jan. 9	no	11 Week
			Nov. 28—Jan. 16	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Silvercrest Carrara	White Taffeta Sculpture Highbrow Paramount Belray	Whitetop Illini Igloo Shasta Cream Shasta Little America Wh. Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Highlander Omega Gold Medal Yellow Galaxy	Yellow Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta
BRONZE & RED	S	Oak Leaf		Ind. Bronze Br. Orchid Queen
	P	Red Heritage Galaxy Orange Galaxy	Thelma	Orange Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen Orchid Queen
	P	Heritage	Taffeta Almega	Bluechip Portrait Criterion Pennant Masterpiece Memorial

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 2, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 7	Nov. 28	Nov. 7 —Jan. 16	no	11 Week
			Nov. 7 —Jan. 23	no	10 Week
35-40°	Nov. 14	Dec. 12	Nov. 14—Jan. 16	no	11 Week
			Nov. 14—Jan. 23	no	10 Week
30-35°	Nov. 28	Dec. 26	Nov. 28—Jan. 16	no	11 Week
			Nov. 28—Jan. 23	no	10 Week
25-30°	Dec. 5	Dec. 26	Dec. 5 —Jan. 16	no	11 Week
			Dec. 5 —Jan. 23	no	10 Week
			Dec. 5 —Jan. 30	no	9 Week
			Dec. 5 —Feb. 6	no	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
WHITE	S	Cream Mefo Mefo	Ind. White Crystal Queen	Queen's Lace	
	P	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Pacesetter Illini Igloo Shasta Cream Shasta Little America	Keepsake Vesta Silver Cloud Halo Cream Halo	Pristine
YELLOW	S	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	
	P	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Honeymoon	
BRONZE & RED	S		Ind. Bronze Br. Orchid Queen	Detroit News Nomago	
	P	Thelma	Or. Beauregard Beauregard Butterscotch Br. Masterpiece	Gaiety Bronze Dot Buckskin Buccaneer	Talisman Paradise
PINK	S		Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Taffeta Almega	Parisiennne Portrait Criterion Pennant Masterpiece Memorial	Pinkette Reward Pink Dot Bluechip	Mirth

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloectner

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 9, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 14	Dec. 12	Nov. 14—Jan. 23	Mar. 12	11 Week
			Nov. 14—Jan. 30	no	10 Week
35-40°	Nov. 21	Dec. 19	Nov. 21—Jan. 23	Mar. 12	11 Week
			Nov. 21—Jan. 30	no	10 Week
30-35°	Dec. 5	Jan. 2	Dec. 5 —Jan. 23	Mar. 12	11 Week
			Dec. 5 —Jan. 30	no	10 Week
			Dec. 5 —Feb. 6	no	9 Week
25-30°	Dec. 19	Jan. 9	Dec. 19—Jan. 23	Mar. 12	11 Week
			Dec. 19—Jan. 30	no	10 Week
			Dec. 19—Feb. 6	no	9 Week
			Dec. 19—Feb. 13	no	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
WHITE	S	Cream Mefo Mefo	Ind. White Crystal Queen	Queen's Lace	
	P	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitop Pacesetter Illini Igloo Shasta Cream Shasta Little America	Keepsake Vesta Silver Cloud Halo Cream Halo	Pristine
YELLOW	S	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	
	P	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Honeymoon	
BRONZE & RED	S		Ind. Bronze Br. Orchid Queen	Detroit News Nomago	
	P	Thelma	Or. Beauregard Beauregard Butterscotch Br. Masterpiece	Gaiety Bronze Dot Buckskin Buccaneer	Talisman Paradise
PINK	S		Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Taffeta Almega	Parisienne Portrait Criterion Pennant Masterpiece Memorial	Pinkette Reward Pink Dot Bluechip	Mirth

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 16, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 21	Dec. 19	Nov. 21—Jan. 30	Mar. 12	11 Week
			Nov. 21—Feb. 6	Mar. 19	10 Week
35-40°	Dec. 5	Jan. 2	Dec. 5 —Jan. 30	Mar. 12	11 Week
			Dec. 5 —Feb. 6	Mar. 19	10 Week
			Dec. 5 —Feb. 13	Mar. 26	9 Week
30-35°	Dec. 12	Jan. 9	Dec. 12—Feb. 6	Mar. 19	10 Week
			Dec. 12—Feb. 13	Mar. 26	9 Week
			Dec. 12—Feb. 20	no	8 Week
25-30°	Dec. 26	Jan. 16	Dec. 26—Feb. 6	Mar. 19	10 Week
			Dec. 26—Feb. 13	Mar. 26	9 Week
			Dec. 26—Feb. 20	no	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
WHITE	S	Cream Mefo Mefo	Ind. White Crystal Queen	Queen's Lace	
	P	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Pacesetter Illini Igloo Shasta Cream Shasta Little America	Keepsake Vesta Silver Cloud Halo Cream Halo	Pristine
YELLOW	S	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	
	P	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Honeymoon	
BRONZE & RED	S		Ind. Bronze Br. Orchid Queen	Detroit News Nomago	
	P	Thelma	Or. Beauregard Beauregard Butterscotch Br. Masterpiece	Gaiety Bronze Dot Buckskin Buccaneer	Talisman Paradise
PINK	S		Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Taffeta Almega	Parisienne Portrait Criterion Pennant Masterpiece Memorial	Pinkette Reward Pink Dot Bluechip	Mayfair Mirth

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloekner

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 23, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Nov. 28	Dec. 26	Nov. 28—Feb. 6	Mar. 12	11 Week
			Nov. 28—Feb. 13	Mar. 19	10 Week
			Nov. 28—Feb. 20	Mar. 26	9 Week
35-40°	Dec. 12	Jan. 9	Dec. 12—Feb. 6	Mar. 12	11 Week
			Dec. 12—Feb. 13	Mar. 19	10 Week
			Dec. 12—Feb. 20	Mar. 26	9 Week
30-35°	Dec. 19	Jan. 16	Dec. 19—Feb. 13	Mar. 19	10 Week
			Dec. 19—Feb. 20	Mar. 26	9 Week
			Dec. 19—Feb. 27	Apr. 2	8 Week
25-30°	Jan. 2	Jan. 23	Jan. 2 —Feb. 13	Mar. 19	10 Week
			Jan. 2 —Feb. 20	Mar. 26	9 Week
			Jan. 2 —Feb. 27	Apr. 2	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week	8 Week
WHITE	S	Cream Mefo Mefo	Ind. White Crystal Queen	Queen's Lace	
	P	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Pacesetter Illini Igloo Shasta Cream Shasta Little America	Keepsake Vesta Silver Cloud Halo Cream Halo	Pristine
YELLOW	S	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	
	P	Yel. Sculpture Lollipop Pippin Yel. Paramount	Barcarole Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Honeymoon	
BRONZE & RED	S		Ind. Bronze Br. Orchid Queen	Detroit News Nomago	
	P	Thelma	Or. Beauregard Beauregard Butterscotch Br. Masterpiece	Gaiety Bronze Dot Buckskin Buccaneer	Talisman Paradise
PINK	S		Ind. Pink Dk. Orchid Queen Orchid Queen		
	P	Taffeta Almega	Parisienne Portrait Criterion Pennant Masterpiece Memorial	Pinkette Reward Pink Dot Bluechip	Mirth Mayfair

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM APRIL 30, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Dec. 12	Jan. 9	Dec. 12—Feb. 20	Mar. 19	10 Week
			Dec. 12—Feb. 27	Mar. 26	9 Week
			Dec. 12—Mar. 5	Apr. 2	8 Week
35-40°	Dec. 19	Jan. 16	Dec. 19—Feb. 20	Mar. 19	10 Week
			Dec. 19—Feb. 27	Mar. 26	9 Week
			Dec. 19—Mar. 5	Apr. 2	8 Week
30-35°	Dec. 26	Jan. 23	Dec. 26—Feb. 20	Mar. 19	10 Week
			Dec. 26—Feb. 27	Mar. 26	9 Week
			Dec. 26—Mar. 5	Apr. 2	8 Week
25-30°	Jan. 9	Jan. 30	Jan. 9—Feb. 20	Mar. 19	10 Week
			Jan. 9—Feb. 27	Mar. 26	9 Week
			Jan. 9—Mar. 5	Apr. 2	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Crystal Queen	Queen's Lace Wh. Mary Garden	Silver Sheen
	P	Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Honeymoon	
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Jetfire Orange Beauregard Beauregard Butterscotch Firegleam Dk. Br. Masterpiece	Gaiety Bronze Dot Hilarity Buckskin Buccaneer	Calumet Talisman Paradise Palette
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen	Mary Garden	
	P	Parisienn Portrait Criterion Pennant Nobility Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth Mary McArthur Prelude

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 7, 1956

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Dec. 19	Jan. 16	Dec. 19—Feb. 27	Mar. 19	10 Week
			Dec. 19—Mar. 5	Mar. 26	9 Week
			Dec. 19—Mar. 12	Apr. 2	8 Week
35-40°	Dec. 26	Jan. 23	Dec. 26—Feb. 27	Mar. 19	10 Week
			Dec. 26—Mar. 5	Mar. 26	9 Week
			Dec. 26—Mar. 12	Apr. 2	8 Week
30-35°	Jan. 2	Jan. 30	Jan. 2 —Feb. 27	Mar. 19	10 Week
			Jan. 2 —Mar. 5	Mar. 26	9 Week
			Jan. 2 —Mar. 12	Apr. 2	8 Week
25-30°	Jan. 16	Feb. 6	Jan. 16—Feb. 27	Mar. 19	10 Week
			Jan. 16—Mar. 5	Mar. 26	9 Week
			Jan. 16—Mar. 12	Apr. 2	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Crystal Queen	Queen's Lace Wh. Mary Garden	Silver Sheen
	P	Whitelop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Honeymoon	
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Jetfire Orange Beauregard Beauregard Butterscotch Firegleam Dk. Br. Masterpiece	Gaiety Bronze Dot Hilarity Buckskin Buccaneer	Calumet Talisman Paradise Palette
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen	Mary Garden	
	P	Parisienne Portrait Criterion Pennant Nobility Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth Mary McArthur Prelude

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 16, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Jan. 3	Jan. 31	Jan. 3 —Mar. 7	Mar. 21	10 Week
			Jan. 3 —Mar. 14	Mar. 28	9 Week
			Jan. 3 —Mar. 21	Apr. 4	8 Week
35-40°	Jan. 10	Feb. 7	Jan. 10—Mar. 7	Mar. 21	10 Week
			Jan. 10—Mar. 14	Mar. 28	9 Week
			Jan. 10—Mar. 21	Apr. 4	8 Week
25-35°	Jan. 24	Feb. 14	Jan. 24—Mar. 7	Mar. 21	10 Week
			Jan. 24—Mar. 14	Mar. 28	9 Week
			Jan. 24—Mar. 21	Apr. 4	8 Week

BLOOM MAY 23, 1955

40-45°	Jan. 10	Feb. 7	Jan. 10—Mar. 14	Mar. 21	10 Week
			Jan. 10—Mar. 21	Mar. 28	9 Week
			Jan. 10—Mar. 28	Apr. 4	8 Week
35-40°	Jan. 17	Feb. 14	Jan. 17—Mar. 14	Mar. 21	10 Week
			Jan. 17—Mar. 21	Mar. 28	9 Week
			Jan. 17—Mar. 28	Apr. 4	8 Week
25-35°	Jan. 31	Feb. 21	Jan. 31—Mar. 14	Mar. 21	10 Week
			Jan. 31—Mar. 21	Mar. 28	9 Week
			Jan. 31—Mar. 28	Apr. 4	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

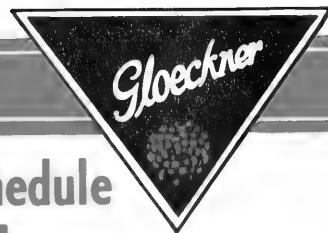
VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Crystal Queen	Queen's Lace Wh. Mary Garden	Silver Sheen
	P	Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Honeymoon	
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Jeffire Orange Beauregard Beauregard Butterscotch Firegleam Dk. Br. Masterpiece	Gaiety Bronze Dot Hilarity Buckskin Buccaneer	Calumet Talisman Paradise Pallette
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen	Mary Garden	
	P	Parisiennne Portrait Criterion Pennant Nobility Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth Mary McArthur Prelude

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM MAY 30, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Jan. 24	Feb. 21	Jan. 24—Mar. 21	Mar. 21	10 Week
			Jan. 24—Mar. 28	Mar. 28	9 Week
			Jan. 24—Apr. 4	Apr. 4	8 Week
25-40°	Feb. 7	Feb. 28	Feb. 7 —Mar. 21	Mar. 21	10 Week
			Feb. 7 —Mar. 28	Mar. 28	9 Week
			Feb. 7 —Apr. 4	Apr. 4	8 Week

BLOOM JUNE 6, 1955

40-45°	Jan. 31	Feb. 28	Jan. 31—Mar. 28	Mar. 28	10 Week
			Jan. 31—Apr. 4	Apr. 4	9 Week
			Jan. 31—Apr. 11	Apr. 11	8 Week
25-40°	Feb. 14	Mar. 7	Feb. 14—Mar. 28	Mar. 28	10 Week
			Feb. 14—Apr. 4	Apr. 4	9 Week
			Feb. 14—Apr. 11	Apr. 11	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		10 Week	9 Week	8 Week
WHITE	S	Ind. White Crystal Queen	Queen's Lace Wh. Mary Garden	Silver Sheen
	P	Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News	Blazing Gold
	P	Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Honeymoon	
BRONZE & RED	S	Ind. Bronze	Detroit News Nomago	
	P	Jeffire Orange Beauregard Beauregard Butterscotch Firegleam Dk. Br. Masterpiece	Gaiety Bronze Dot Hilarity Buckskin Buccaneer	Calumet Talisman Paradise Palette
PINK	S	Ind. Pink Dk. Orchid Queen Orchid Queen	Mary Garden	
	P	Parisienne Portrait Criterion Pennant Nobility Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth Mary McArthur Prelude

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM JUNE 13, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Feb. 21	Mar 14	Feb. 21—Apr. 4	Apr. 4	10 Week
			Feb. 21—Apr. 11	Apr. 11	9 Week
			Feb. 21—Apr. 18	Apr. 18	8 Week

BLOOM JUNE 20, 1955

25-45°	Feb. 28	Mar. 21	Feb. 28—Apr. 11	Apr. 11	10 Week
			Feb. 28—Apr. 18	Apr. 18	9 Week
			Feb. 28—Apr. 25	Apr. 25	8 Week

BLOOM JUNE 27, 1955

25-45°	Mar. 7	Mar. 28	Mar. 7 —Apr. 18	Apr. 18	10 Week
			Mar. 7 —Apr. 25	Apr. 25	9 Week
			Mar. 7 —May 2	May 2	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden Albatross	Silver Sheen
	P Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Songster Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S Yellow Queen	Gold Lace Yellow Lace Good News Yellow Ivanhoe	Blazing Gold
	P Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Sunray Honeymoon	
BRONZE & RED	P Jetfire Orange Beauregard Beauregard Firegleam Butterscotch	Gaiety Bronze Dot Buckskin Hilarity	Calumet Talisman Paradise Pallette
PINK	P Parisienne Portrait Criterion Penant	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth

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CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM JULY 4, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Mar. 14	Apr. 4	Mar. 14—Apr. 25	Apr. 25	10 Week
			Mar. 14—May 2	May 2	9 Week
			Mar. 14—May 9	May 9	8 Week

BLOOM JULY 11, 1955

25-45°	Mar. 21	Apr. 11	Mar. 21—May 2	May 2	10 Week
			Mar. 21—May 9	May 9	9 Week
			Mar. 21—May 16	May 16	8 Week

BLOOM JULY 18, 1955

25-45°	Mar. 28	Apr. 18	Mar. 28—May 9	May 9	10 Week
			Mar. 28—May 16	May 16	9 Week
			Mar. 28—May 23	May 23	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden Albatross	Silver Sheen
	P Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Songster Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S Yellow Queen	Gold Lace Yellow Lace Good News Yellow Ivanhoe	Blazing Gold
	P Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Sunray Honeymoon	
BRONZE & RED	P Jeffire Orange Beauregard Beauregard Firegleam Butterscotch	Gaiety Bronze Dot Buckskin Hilarity	Calumet Talisman Paradise Pallette
PINK	P Parisienne Portrait Criterion Penant	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth

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CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM JULY 25 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Apr. 4	Apr. 25	Apr. 4 —May 9	May 16	10 Week
			Apr. 4 —May 16	May 23	9 Week
			Apr. 4 —May 23	May 30	8 Week

BLOOM AUGUST 1, 1955

25-45°	Apr. 11	May 2	Apr. 11—May 9	May 23	10 Week
			Apr. 11—May 16	May 30	9 Week
			Apr. 11—May 23	June 6	8 Week

BLOOM AUGUST 8, 1955

25-45°	Apr. 18	May 9	Apr. 18—May 9	May 30	10 Week
			Apr. 18—May 16	June 6	9 Week
			Apr. 18—May 23	June 13	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden Albatross	Silver Sheen
	P Freedom Whitelop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Songster Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S Yellow Queen	Gold Lace Yellow Lace Good News Yellow Ivanhoe	Blazing Gold
	P Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Sunray Honeymoon	
BRONZE & RED	P Jetfire Orange Beauregard Beauregard Firegleam Butterscotch	Gaiety Bronze Dot Buckskin Hilarity	Calumet Talisman Paradise Palette
PINK	P Parisienne Portrait Criterion Pennant	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth

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CHRYSANTHEMUM MANUAL

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Year-Around Chrysanthemum Flowering Schedule

BLOOM AUGUST 15, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
25-45°	Apr. 25	May 16	Apr. 25—May 9	June 6	10 Week
			Apr. 25—May 16	June 13	9 Week
			Apr. 25—May 23	June 20	8 Week

BLOOM AUGUST 22, 1955

25-45°	May 2	May 23	May 2 —May 9	June 13	10 Week
			May 2 —May 16	June 20	9 Week
			May 2 —May 23	June 27	8 Week

BLOOM AUGUST 29, 1955

25-45°	May 9	May 30	No Light Necessary	June 20	10 Week
			No Light Necessary	June 27	9 Week
			No Light Necessary	July 4	8 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden Albatross	Silver Sheen
	P Freedom Whitetop Madonna Pacesetter Illini Igloo Shasta Cream Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Songster Vesta Silver Cloud Halo Cream Halo	Cream Puff Pristine Silvertone
YELLOW	S Yellow Queen	Gold Lace Yellow Lace Good News Yellow Ivanhoe	Blazing Gold
	P Barcarole Crescendo Yellow Shasta	Goldfinch Starlight Golden Herald Gold Coast Aztec Sunup Sauterne Mary Hall Yellow Halo Starbright Sunray Honeymoon	
BRONZE & RED	P Jeffire Orange Beauregard Beauregard Firegleam Butterscotch	Gaiety Bronze Dot Buckskin Hilarity	Calumet Talisman Paradise Palette
PINK	P Parisiennne Portrait Criterion Pennant	Pinkette Vogue Reward Pink Dot Bluechip Tempo	Mayfair Jester Enterprise Mirth

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CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM SEPTEMBER 5, 1955

Latitude	Plant	Pinch*	Start Shade	Response Group
25-45°	May 16	June 6	June 27	10 Week
			July 4	9 Week
			July 11	8 Week

BLOOM SEPTEMBER 12, 1955

25-45°	May 23	June 13	July 4	10 Week
			July 11	9 Week
			July 18	8 Week

BLOOM SEPTEMBER 19, 1955

40-45°	May 30	June 20	July 11	10 Week
			July 18	9 Week
			July 25	8 Week
25-40°	June 6	June 27	July 11	10 Week
			July 18	9 Week
			July 25	8 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	10 Week	9 Week	8 Week
WHITE	S Ind. White Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden	Silver Sheen
	P Freedom Whitetop Madonna Encore Pacesetter Illini Igloo Shasta Cream Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake Pinocchio Songster Halo (Ghs.) Cream Halo (Ghs.) Vesta Silver Cloud (Ghs.) Sea Gull	Cream Puff Pristine Silvertone
YELLOW	S Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Yellow Lace Good News Yellow Ivanhoe	Blazing Gold
	P Barcarole Crescendo Brigadoon Constellation Yellow Shasta	Goldfinch Starlight Gold Coast Aztec Sauterne Mary Hall Yellow Halo (Ghs.) Sunray Honeymoon	
BRONZE & RED	S Ind. Bronze Nomago Mrs. Roy	Detroit News Ivanhoe	
	P Jeffire Orange Beauregard Beauregard Rubicon Samovar Firegleam Br. Pandora Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy	Talisman Paradise
PINK	S Ind. Pink Dk. Orchid Queen	Mary Garden	Pink Chief
	P Parisienne Portrait Criterion Pennant Nobility Pandora Rose Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Rainbow Tempo	Mayfair Mirih Mary McArthur Mirih

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CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM SEPTEMBER 26, 1955

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 6	June 27	July 11	11 Week
			July 18	10 Week
			July 25	9 Week
25-40°	June 13	July 4	July 11	11 Week
			July 18	10 Week
			July 25	9 Week

BLOOM OCTOBER 3, 1955

40-45°	June 13	July 4	July 18	11 Week
			July 25	10 Week
			Aug. 1	9 Week
25-40°	June 20	July 11	July 18	11 Week
			July 25	10 Week
			Aug. 1	9 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

		11 Week	10 Week	9 Week
WHITE	S	Mefo Cream Mefo	Ind. White Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden
	P	Wh. Taffeta Sculpture Highbrow Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake (Ghs.) Pinocchio Songster Halo (Ghs.) Cream Halo (Ghs.) Vesta Silver Cloud (Ghs.)
YELLOW	S	Yellow Mefo	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Good News Yellow Ivanhoe
	P	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Yellow Paramount	Barcarole Brigadoon Constellation Yellow Shasta	Goldfinch Starlight Gold Coast Aztec Sauterne Yellow Halo (Ghs.) Sch. Yellow Daisy Mary Hall Sunray Honeymoon
BRONZE & RED	S	Mrs. Eisenhower	Ind. Bronze Nomago Mrs. Roy	Detroit News Ivanhoe Antique
	P	Shalimar Rusticon Thelma Rubaiyat Dk. Br. Minuet	Jetfire Orange Beauregard Beauregard Rubicon Samovar Firegleam Br. Pandora Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy
PINK	S	Thanks. Pink	Ind. Pink Dk. Orchid Queen	Mary Garden
	P	Taffeta Almega Dk. Pink Minuet	Parisienne Portrait Criterion Pennant Nobility Pandora Rose Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Rainbow Tempo

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM OCTOBER 10, 1955

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 13	July 4	July 25 Aug. 1 Aug. 8	11 Week 10 Week 9 Week
25-40°	June 20	July 11	July 25 Aug. 1 Aug. 8	11 Week 10 Week 9 Week

BLOOM OCTOBER 17, 1955

40-45°	June 20	July 11	Aug. 1 Aug. 8 Aug. 15	11 Week 10 Week 9 Week
25-40°	June 27	July 18	Aug. 1 Aug. 8 Aug. 15	11 Week 10 Week 9 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	11 Week	10 Week	9 Week
WHITE	S Mefo Cream Mefo	Ind. White Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden
	P Wh. Taffeta Sculpture Highbrow Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Cream Shasta Little America Illini Snowdrift White Memorial	White Popcorn Keepsake (Ghs.) Pinocchio Songster Halo (Ghs.) Cream Halo (Ghs.) Vesta Silver Cloud (Ghs.)
YELLOW	S Yellow Mefo	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Good News Yellow Ivanhoe
	P Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Yellow Paramount	Barcarole Brigadoon Constellation Yellow Shasta	Goldfinch Starlight Gold Coast Aztec Sauterne Yellow Halo (Ghs.) Sch. Yellow Daisy Mary Hall Sunray Honeymoon
BRONZE & RED	S Mrs. Eisenhower	Ind. Bronze Nomago Mrs. Roy	Detroit News Ivanhoe Antique
	P Shalimar Rusticon Thelma Rubaiyat Dk. Br. Minuet	Jeffire Orange Beauregard Beauregard Rubicon Samovar Firegleam Br. Pandora Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy
PINK	S Thanks. Pink	Ind. Pink Dk. Orchid Queen	Mary Garden
	P Taffeta Almega Dk. Pink Minuet	Parisienne Portrait Criterion Pennant Nobility Pandora Rose Masterpiece	Pinkette Vogue Reward Pink Dot Bluechip Rainbow Tempo

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloekner

Year-Around Chrysanthemum Flowering Schedule

BLOOM OCTOBER 24, 1955

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	June 20	July 11	Aug. 1	12 Week
			Aug. 8	11 Week
			Aug. 15	10 Week
			no	9 Week

25-40°	June 27	July 18	Aug. 1	12 Week
			Aug. 8	11 Week
			Aug. 15	10 Week
			no	9 Week

BLOOM OCTOBER 31, 1955

40-45°	June 27	July 18	Aug. 8	12 Week
			Aug. 15	11 Week
			no	10 Week

25-40°	July 4	July 25	Aug. 8	12 Week
			Aug. 15	11 Week
			no	10 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week	9 Week
WHITE	S Chattanooga	Mefo Cream Mefo	Ind. White Giant Betsy Ross Crystal Queen	Queen's Lace Wh. Mary Garden
	P Silvercrest Illini Peace Fortune Carrara	Wh. Taffeta Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Illini Snowdrift White Memorial	White Popcorn Keepsake (Ghs.) Pinocchio Songster Vesta Halo (Ghs.)
YELLOW	S Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen	Gold Lace Good News Yellow Ivanhoe
	P Goldenrod Goldsmith Highlander Yellow Valencia Yellow Fortune Omega Yellow Galaxy	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Brigadoon Constellation Yellow Shasta	Starlight Gold Coast Aztec Sch. Yellow Daisy Mary Hall Sunray Honeymoon
BRONZE & RED	S Oak Leaf	Mrs. Eisenhower	Ind. Bronze Nomago Mrs. Roy	Detroit News Ivanhoe Antique
	P Illini Redwood Br. Goldsmith Indianhead Apr. Valencia Red Heritage Galaxy Orange Galaxy	Shalimar Rusticon Thelma Rubaiyat Dk. Bronze Minuet	Jeffire Or. Beauregard Beauregard Rubicon Samivar Firegleam Br. Pandora Paragon	Gaiety Bronze Dot Buckskin Buccaneer Navaho Imp. Red Daisy
PINK	S	Thanks. Pink	Ind. Pink Dk. Orchid Queen	Mary Garden
	P Pink Cloud Valencia Heritage	Taffeta Illini Springtime Nugano Almega Minuet	Parisienne Portrait Criterion Pennant Nobility Pandora	Pinkette Vogue Pink Dot Bluechip Rainbow Tempo

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 7, 1955

Latitude	Plant	Pinch*	Start Shade	Response Group
40-45°	July 4	July 25	Aug. 15 Aug. 22 no	12 Week 11 Week 10 Week
30-40°	July 11	Aug. 1	Aug. 15 Aug. 22 no	12 Week 11 Week 10 Week
25-30°	July 18	Aug. 8	Aug. 15 Aug. 22 no	12 Week 11 Week 10 Week

*For No Pinch Method: Plant on Pinch Date

VARIETIES IN RESPONSE GROUPS

	12 Week	11 Week	10 Week
WHITE	S Chattanooga	Mefo Cream Mefo	Ind. White Giant Betsy Ross Crystal Queen
	P Silvercrest Illini Peace Fortune Carrara	Wh. Taffeta Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Illini Snowdrift White Memorial
YELLOW	S Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Goldenrod Goldsmith Highlander Yellow Valencia Yellow Fortune Omega Yellow Galaxy	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Brigadoon Constellation Yellow Shasta
BRONZE & RED	S Oak Leaf	Mrs. Eisenhower	Ind. Bronze Nomago Mrs. Roy
	P Illini Redwood Br. Goldsmith Indianhead Apr. Valencia Red Heritage Galaxy Orange Galaxy	Shalimar Rusticon Thelma Rubaiyat Dk. Bronze Minuet	Jetfire Orange Beauregard Beauregard Rubicon Samovar Firegleam Br. Pandora Paragon
PINK	S	Thanks. Pink	Ind. Pink Dk. Orchid Queen
	P Pink Cloud Valencia Heritage	Taffeta Illini Springtime Nugano Almega Minuet	Parisienne Portrait Criterion Pennant Nobility Pandora

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloekner

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 14, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 4	July 25	None	Aug. 22	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 5	no	10 Week
30-40°	July 11	Aug. 1	None	Aug. 22	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 5	no	10 Week
25-30°	July 18	Aug. 8	None	Aug. 22	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 5	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

		12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Giant Betsy Ross Crystal Queen
	P	Silvercrest Illini Peace Fortune Carrara	Wh. Taffeta Sculpture Highbrow Priscilla Paramount Belray	Freedom Whitetop Encore Pacesetter Illini Igloo Shasta Illini Snowdrift White Memorial
YELLOW	S	Dk. Yel. Chattan'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P	Goldenrod Goldsmith Highlander Yellow Valencia Yellow Fortune Omega Yellow Galaxy	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Yel. Paramount	Barcarole Brigadoon Constellation Yellow Shasta
BRONZE & RED	S	Oak Leaf	Mrs. Eisenhower	Ind. Bronze Nomago Mrs. Roy
	P	Illini Redwood Br. Goldsmith Indianhead Apr. Valencia Red Heritage Galaxy Orange Galaxy	Shalimar Rusticon Thelma Rubaiyat Dk. Bronze Minuet	Jeffire Orange Beauregard Beauregard Rubicon Samovar Firegleam Br. Pandora Paragon
PINK	S		Thanks. Pink	Ind. Pink Dk. Orchid Queen
	P	Pink Cloud Valencia Heritage	Taffeta Illini Springtime Nugano Almega Minuet	Parisienne Portrait Criterion Pennant Nobility Pandora

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P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 21, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 11	Aug. 1	None	Aug. 22	13 Week
			None	Aug. 15	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 12	no	10 Week
30-40°	July 18	Aug. 8	None	Aug. 22	13 Week
			None	Aug. 15	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 12	no	10 Week
25-30°	July 25	Aug. 15	None	Aug. 22	13 Week
			None	Aug. 15	12 Week
			None	no	11 Week
			Aug. 8 —Sept. 12	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P Acclaim Cotillion Wh. Snowdrop Yukon Satellite	Silvercrest Illini Peace White Valencia Fortune Carrara	Wh. Taffeta Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester Marie DePetris	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Brandywine Yellow Acclaim Cinderella Goldie Yellow Satellite Corsair	Goldsmith Highlander Sunnyside Yellow Fortune Omega Yellow Galaxy Gold Medal	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Klondike Yel. Paramount	Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf	Mrs. Eisenhower Br. Frick	Ind. Bronze Br. Orchid Queen Anaconda
	P Mahogany Viking Holiday Christmas Star Br. Minstrel Dk. Br. Minstrel Red Minstrel	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Red Heritage Galaxy Orange Galaxy	Rusticon Thelma Rubaiyat Carousel Festival Br. Minuet Dk. Br. Minuet	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink Ed. Seidewitz	Ind. Pink Orchid Queen Dk. Orchid Queen
	P Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Minstrel	Pink Cloud Valencia Heritage	Taffeta Nugano Almega Minuet Dk. Pink Minuet	Portrait Criterion Rose Masterpiece

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

Gloekner

Year-Around Chrysanthemum Flowering Schedule

BLOOM NOVEMBER 28, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 18	Aug. 8	None	Aug. 29	13 Week
			None	no	12 Week
			Aug. 15—Sept. 12	no	11 Week
			Aug. 8 —Sept. 19	no	10 Week
30-40°	July 25	Aug. 15	None	Aug. 29	13 Week
			None	no	12 Week
			Aug. 15—Sept. 12	no	11 Week
			Aug. 8 —Sept. 19	no	10 Week
25-30°	Aug. 1	Aug. 22	None	Aug. 29	13 Week
			None	no	12 Week
			Aug. 15—Sept. 12	no	11 Week
			Aug. 8 —Sept. 19	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	13 Week	12 Week	11 Week	10 Week
WHITE	S	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P Acclaim Cotillion Wh. Snowdrop Yukon Satellite	Silvercrest Illini Peace White Valencia Fortune Carrara	Wh. Taffeta Sculpture Highbrow Priscilla Paramount Belray	Whitetop Encore Illini Igloo Shasta Cream Shasta Little America
YELLOW	S	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester Marie De Petris	Ind. Yellow Imp. Ind. Yellow Yellow Queen
	P Brandywine Yellow Acclaim Cinderella Goldie Yellow Satellite Corsair	Goldsmith Highlander Sunnyside Yellow Head Omega Yellow Galaxy Gold Medal	Yellow Sculpture Golden Chord Forty-Niner Lollipop Pippin Klondike Yel. Paramount	Brigadoon Yellow Shasta
BRONZE & RED	S	Oak Leaf	Mrs. Eisenhower Br. Frick	Ind. Bronze Br. Orchid Queen Anaconda
	P Mahogany Viking Holiday Christmas Star Br. Minstrel Dk. Br. Minstrel Red Minstrel	Illini Redwood Br. Goldsmith Indian Head Apr. Valencia Red Heritage Galaxy Orange Galaxy	Rusticon Thelma Rubaiyat Carousel Festival Br. Minuet Dk. Br. Minuet	Or. Beauregard Beauregard Rubicon Br. Masterpiece
PINK	S		Thanks. Pink Ed. Seidewitz	Ind. Pink Orchid Queen Dk. Orchid Queen
	P Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Minstrel	Pink Cloud Valencia Heritage	Taffeta Nugano Almega Minuet Dk. Pink Minuet	Portrait Criterion Rose Masterpiece

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 5, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 25	Aug. 15	None	Aug. 29	14 Week
			None	no	13 Week
			Aug. 22—Sept. 12	no	12 Week
			Aug. 15—Sept. 19	no	11 Week
			Aug. 8 —Sept. 26	no	10 Week
30-40°	Aug. 1	Aug. 22	None	Aug. 29	14 Week
			None	no	13 Week
			Aug. 22—Sept. 12	no	12 Week
			Aug. 15—Sept. 19	no	11 Week
			Aug. 8 —Sept. 26	no	10 Week
25-30°	Aug. 8	Aug. 29	None	no	13 Week
			Aug. 22—Sept. 12	no	12 Week
			Aug. 15—Sept. 19	no	11 Week
			Aug. 8 —Sept. 26	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Illini Peace Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Illini Snowdrift
YELLOW	S	Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester Marie DePetris	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Red Heritage Galaxy Or. Galaxy	Shalimar Thelma Festival Rubaiyat	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Mins'el	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL



Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 12, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	July 25	Aug. 15	None	Aug. 29	14 Week
			None	no	13 Week
			Aug. 22—Sept. 19	no	12 Week
			Aug. 15—Sept. 26	no	11 Week
			Aug. 8—Oct. 3	no	10 Week
30-40°	Aug. 1	Aug. 22	None	Aug. 29	14 Week
			None	no	13 Week
			Aug. 22—Sept. 19	no	12 Week
			Aug. 15—Sept. 26	no	11 Week
			Aug. 8—Oct. 3	no	10 Week
25-30°	Aug. 8	Aug. 29	None	no	13 Week
			Aug. 22—Sept. 19	no	12 Week
			Aug. 15—Sept. 26	no	11 Week
			Aug. 8—Oct. 3	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Illini Peace Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Illini Snowdrift
YELLOW	S	Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Mefo Harvester Marie DePetris	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mahog. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Red Heritage Galaxy Or. Galaxy	Shalimar Thelma Festival Rubaiyat
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Mins'el	Heritage	Taffeta Almega
					Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 19, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 1	Aug. 22	None	no	14 Week
			Aug. 29—Sept. 19	no	13 Week
			Aug. 22—Sept. 26	no	12 Week
			Aug. 15—Oct. 3	no	11 Week
			Aug. 8 —Oct. 10	no	10 Week
35-40°	Aug. 8	Aug. 29	None	no	14 Week
			Aug. 29—Sept. 19	no	13 Week
			Aug. 22—Sept. 26	no	12 Week
			Aug. 15—Oct. 3	no	11 Week
			Aug. 8 —Oct. 10	no	10 Week
30-35°	Aug. 15	Sept. 5	None	no	14 Week
			Aug. 29—Sept. 19	no	13 Week
			Aug. 22—Sept. 26	no	12 Week
			Aug. 15—Oct. 3	no	11 Week
			Aug. 8 —Oct. 10	no	10 Week
25-30°	Aug. 22	Sept. 12	Aug. 29—Sept. 19	no	13 Week
			Aug. 22—Sept. 26	no	12 Week
			Aug. 15—Oct. 3	no	11 Week
			Aug. 8 —Oct. 10	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S	Dec. White Smith's White	Chattanooga	Melo Cream Melo	Ind. White Crystal Queen
	P	Snowcrest Cr. Snowcrest Silversmith Snowcap	Silvercrest Illini Peace Monarch Carrara	wn. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Illini Snowdrift
YELLOW	S	Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattanooga Golden Pearson	Yellow Melo Harvester Marie DePetris	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Yel. Riviera Yel. Snowcrest Vibrant	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin	Brigadoon Yellow Shasta
BRONZE & RED	S		Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greef'gs Merrymaker Poinsettia	Red Heritage Galaxy Or. Galaxy	Shalimar Thelma Festival Rubaiyat	Or. Beauregard Beauregard Rubicon Br. Masterp'ce
PINK	S			Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Mins'el	Taffeta Almaga	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon

CHRYSANTHEMUM MANUAL

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Year-Around Chrysanthemum Flowering Schedule

BLOOM DECEMBER 26, 1955

Latitude	Plant	Pinch*	Lighting Period	Start Shade	Response Group
40-45°	Aug. 1	Aug. 22	None	no	15 Week
			Sept. 5 —Sept. 19	no	14 Week
			Aug. 29—Sept. 26	no	13 Week
			Aug. 22—Oct. 3	no	12 Week
			Aug. 15—Oct. 10	no	11 Week
			Aug. 8 —Oct. 17	no	10 Week
35-40°	Aug. 8	Aug. 29	None	no	15 Week
			Sept. 5 —Sept. 19	no	14 Week
			Aug. 29—Sept. 26	no	13 Week
			Aug. 22—Oct. 3	no	12 Week
			Aug. 15—Oct. 10	no	11 Week
			Aug. 8 —Oct. 17	no	10 Week
30-35°	Aug. 22	Sept. 12	Aug. 29—Sept. 26	no	13 Week
			Aug. 22—Oct. 3	no	12 Week
			Aug. 22—Oct. 10	no	11 Week
			Aug. 22—Oct. 17	no	10 Week
25-30°	Aug. 29	Sept. 19	Aug. 29—Sept. 26	no	13 Week
			Aug. 29—Oct. 3	no	12 Week
			Aug. 29—Oct. 10	no	11 Week
			Aug. 29—Oct. 17	no	10 Week

*For No Pinch Method: Plant and Light on Pinch Date

VARIETIES IN RESPONSE GROUPS

	15 Week	14 Week	13 Week	12 Week	11 Week	10 Week
WHITE	S		Dec. White Smith's White	Chattanooga	Mefo Cream Mefo	Ind. White Crystal Queen
	P	Revelation Snow Talmeda Ill. Snowbound	Acclaim Cotillion Wh. Snowdrop Yukon Satellite	Silvercrest Illini Peace Monarch Carrara	Wh. Taffeta Sculpture Highbrow Paramount Belray	Whitetop Encore Illini Igloo Shasta Little America Wh. Memorial
YELLOW	S		Chalice Tobin's Yellow Meteore	Dk. Yel. Chat'n'ga Yel. Chattan'ga Golden Pearson	Yellow Mefo Harvester	Ind. Yellow Imp. Ind. Yel. Yellow Queen
	P	Siren Yuleflame Yellow Snow Ill. Yel. Sno'b'd	Yel. Acclaim Goldtone Yel. Satellite Goldie Corsair	Highlander Omega Gold Medal Yel. Galaxy	Yel. Sculpture Golden Chord Forty-Niner Lollipop Pippin	Brigadoon Yellow Shasta
BRONZE & RED	S			Oak Leaf		Ind. Bronze Br. Or. Queen
	P	Br. Riviera Topaz Christ. Greet'gs Merrymaker Poinsettia	Mah. Viking Holiday Christ. Star Br. Minstrel Dk. Br. Minstrel	Red Heritage Galaxy Or. Galaxy	Shalimar Thelma Rubaiyat Festival	Or. Beaureg'd Beauregard Rubicon Br. Masterp'ce
PINK	S				Thanks. Pink	Ind. Pink Orchid Queen Dk. Or. Queen
	P	Riviera Rosalind	Debutante Minstrel Lt. Pk. Minstrel Imp. Pk. Min'rel	Heritage	Taffeta Almega	Portrait Criterion Rose Mast'p'ce

S—Standard

P—Pompon



CHRYSANTHEMUM MANUAL

Chrysanthemum Pot Plant Culture

Like cut flowers, chrysanthemum pot plants are very profitable the year-around. To flower pot plants the year-around, it is necessary to lay out a plan and follow it to the nth degree. In the following pages, you will find a schedule that has been working successfully for the past several years.

High quality pot plants can only be grown when all cultural conditions are optimum. Give ample space immediately after pinching.

Soil

A good, fibrous silt loam directly from the field, to which one-third of well-rotted manure or German peat has been added, plus an application of super-phosphate will give excellent results. Steam sterilization of the soil is advisable. You can plant immediately after steaming, provided you water heavily after planting the cuttings.

Watering and Humidity

After planting, water thoroughly to set the soil around the roots. Repeat this type of watering when the soil gets dry. Organic matter in the soil will facilitate watering and will tend to avoid extreme fluctuations in moisture supply. You can overwater a chrysanthemum as easily as a poinsettia plant. Overwatering will rot the roots, and the tops will take on a very yellow color.

For best results grow all potted chrysanthemums under glass. Do not shade the glass any more than necessary. Usually a light shade is necessary in mid summer. Shade on the glass is only there for the convenience of the grower and not for the requirements of the plant. Keep humidity in the house by wetting down benches and walks, and by an occasional syringing over the plants.

Fertilizing

The foliage should retain a bright green luster throughout the life of the plant. The lower leaves should never be allowed to turn a light green due to low fertility. A strong well-grown pot plant is a well-fed plant. Pot plants should be fed more frequently than those grown in a bench, as constant leaching lowers the nutrient level in pots faster than in bench culture.

Liquid fertilizers are very effective. Weekly feedings have produced excellent results. After the cuttings are planted, water the plants in with a weak solution (starter solution) of ammonium sulfate. Feed every week with a half strength ammonium sulfate, 1 ounce to 4 gallons of water. When buds are visible, feed with 15-30-15, 15-15-15, or 20-20-20 at the rate of 1 ounce to 4 gallons of water. Last feeding should be made when the plants are ready to sell. During the winter months do not feed as frequently.

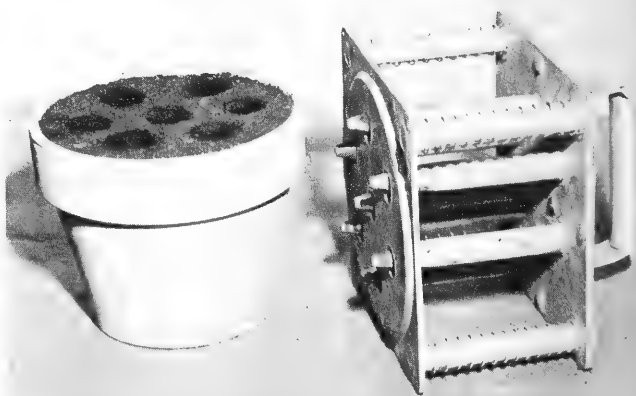
Brown edges on the margins of the leaves during the summer have been attributed to too much phosphate and potassium in the soil or in the fertilizer. Some growers have preferred to go easy on these elements, and their plants showed very little of the marginal burning during the hot summer days.

Temperature

Chrysanthemum pot plants do much better when grown as a 65-degree crop. Lower temperatures will cause an uneven and poor growth. After color shows, finish in a cooler temperature. The pinks and bronzes will be a better color when allowed to develop their color in a bright cool house.

Shading and Disbudding

Use same procedure as for cut flower crop. Black cloth treatment should continue until the buds are taken. The last pinch is usually made the same day short-day treatment is started. However, if you are troubled with tall potted plants, delay the last pinch 10 to 14 days after starting the shading program. Disbud each shoot to one bud when buds are large enough to handle.



Chrysanthemum Pot Plant Culture

Planting and Pinching

Plant the rooted cutting directly in the pot. Do not plant cuttings too deep as in hot weather this will cause Rhizoctonia to develop in the stem. It has been found that the best way to plant the cuttings is around the pot and not the common four with one in the center.

No-Pinch Method. Plant 7 to 9 cuttings in a 6-inch pot and give short-day treatment the same day. It is a very rapid way to grow potted plants the year-around. The blooms will be very large and the stems will be much stronger than when growing pinched plants.

Single-Pinch Method. The most common method of growing potted plants today. It is much faster and produces a very uniform plant with strong stems not too tall. Plant 5 or 6 cuttings in a 6-inch pot. Pinch the plants 5 days after planting and give short-day treatment the day you pinch.

We suggest that those plants that are planted between September 15 and January 1 be given 12 days of additional light before they are pinched. The requirements for additional light can be found on page 1. For those plants planted from January 1 to May 1 we suggest that 5 days of additional light be given. The rest of the year the length of day is long enough to produce long day effects. Like all rules there are exceptions and for these exceptions study the year-around pot plant schedule.

Two-Pinch Method. Probably the most common several years ago, but still very good results can be obtained from this method. Plant 3 or 4 cuttings in a 6-inch pot. Pinch the plants the first time 14 days after planting and wait 21 days and pinch the second time. Long-day treatment should be maintained either naturally or through the use of additional light during this period. Short-day treatment should start at the time of the second pinch.

Modified Two-Pinch Method. We recommend this cultural method for those varieties that normally grow too tall, such as Queen's Lace, Indianapolis varieties, Copperhead, etc. Grow the plants similar to the "Single-Pinch Method" and start the short-day treatment. After the plant has been given the short-day treatment — 21 or 28 days depending on the time of year, pinch the second time. This second pinching will not delay the flowering very much more than one week

but will keep the plant much shorter than if not given this second pinch.

If plants flower too tall, you had better delay your last pinch by 10 to 14 days. In some localities pot plants will grow taller than in others. Sometimes too much shade on the glass will cause the plants to stretch. Yet there are many varieties that grow too tall when given the short-day treatment the day of the last pinch. If this is true, start short-day treatment and give the final pinch 10 to 14 days after short-day treatment was started. Royal Bronze, Indianapolis varieties, Queen's Lace, Yellow Lace and Little America are often grown too tall, so delay pinching.

Garden Mum Pot Plants for Mother's Day

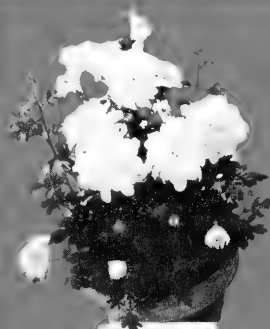
Garden mum plants in full bloom make ideal potted plants for Mother's Day. This should be a valuable addition to the list of spring pot plants. For best results, 5 cuttings should be planted in a 6-inch pot or 2 cuttings in a 4-inch pot. After these pot plants are through flowering, they should be cut back to within 3 inches of the soil level and planted into the garden. These same plants will bloom again in the fall. There is a long list of varieties to choose from, and to facilitate selection, we are offering a 500 cutting collection suitable for this culture. This collection contains the better varieties which have been tried and proven.

SINGLE-PINCH METHOD

1. Plant 5 rooted cuttings from lighted stock, March 2 in a 6-inch pot, or 2 cuttings in 4-inch pot.
2. Pinch plants March 7.
3. Grow in 65-degree house.
4. Apply black cloth April 11, if necessary.

TWO-PINCH METHOD

1. Plant rooted cuttings from lighted stock, February 2, and pinch same day.
2. Apply 4 hours of additional light each night from February 2 to March 7.
3. Pinch second time March 7, give short-day treatment April 11, if necessary.
4. Grow in 65-degree house.



CHRIS. COLUMBUS



ALLEGRO



MRS. DUPONT



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
JANUARY 2, 1956	Blazing Gold	Oct. 26	Oct. 26 - Nov. 7	Nov. 7	no
	Queen's Lace	Oct. 19	Oct. 19 - Oct. 24	1st Oct. 24	no
	Yellow Lace			2nd Nov. 21	
	Indianapolis White...	Oct. 19	Oct. 19 - Oct. 24	Oct. 24	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Oct. 5	Oct. 5 - Oct. 24	Oct. 17	no
	Little America	Oct. 12	Oct. 12 - Oct. 24	Oct. 24	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Oct. 5	Oct. 5 - Oct. 17	Oct. 17	no
JANUARY 9, 1956	Blazing Gold	Nov. 2	Nov. 2 - Nov. 14	Nov. 14	no
	Queen's Lace	Oct. 26	Oct. 26 - Oct. 31	1st Oct. 31	no
	Yellow Lace			2nd Nov. 28	
	Indianapolis White...	Oct. 26	Oct. 26 - Oct. 31	Oct. 31	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Oct. 12	Oct. 12 - Oct. 31	Oct. 24	no
	Little America	Oct. 19	Oct. 19 - Oct. 31	Oct. 31	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Oct. 12	Oct. 12 - Oct. 24	Oct. 24	no
JANUARY 16, 1956	Blazing Gold	Nov. 9	Nov. 9 - Nov. 21	Nov. 21	no
	Queen's Lace	Nov. 2	Nov. 2 - Nov. 7	1st Nov. 7	no
	Yellow Lace			2nd Dec. 5	
	Indianapolis White...	Nov. 2	Nov. 2 - Nov. 7	Nov. 7	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Oct. 19	Oct. 19 - Nov. 7	Oct. 31	no
	Little America	Oct. 26	Oct. 26 - Nov. 7	Nov. 7	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Oct. 19	Oct. 19 - Oct. 31	Oct. 31	no
JANUARY 23, 1956	Blazing Gold	Nov. 16	Nov. 16 - Nov. 28	Nov. 28	no
	Queen's Lace	Nov. 9	Nov. 9 - Nov. 14	1st Nov. 14	no
	Yellow Lace			2nd Dec. 12	
	Indianapolis White...	Nov. 9	Nov. 9 - Nov. 14	Nov. 14	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Oct. 26	Oct. 26 - Nov. 14	Nov. 7	no
	Little America	Nov. 2	Nov. 2 - Nov. 14	Nov. 14	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Oct. 26	Oct. 26 - Nov. 7	Nov. 7	no

CHRYSANTHEMUM MANUAL



Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
JANUARY 30, 1956	Blazing Gold	Nov. 23	Nov. 23 Dec. 5	Dec. 5	no
	Queen's Lace	Nov. 16	Nov. 16 - Nov. 21	1st Nov. 21	
	Yellow Lace			2nd Dec. 19	no
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Nov. 16	Nov. 16 - Nov. 21	Nov. 21	no
	Indianapolis Pink				
	Wilson's White	Nov. 2	Nov. 2 - Nov. 21	Nov. 14	no
	Little America				
	Delaware				
	Queen of Pinks	Nov. 9	Nov. 9 - Nov. 21	Nov. 21	no
FEBRUARY 6, 1956	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Nov. 2	Nov. 2 - Nov. 14	Nov. 14	no
	Blazing Gold	Nov. 30	Nov. 30 - Dec. 12	Dec. 12	no
	Queen's Lace	Nov. 23	Nov. 23 - Nov. 28	1st Nov. 28	
	Yellow Lace			2nd Dec. 26	no
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Nov. 23	Nov. 23 - Nov. 28	Nov. 28	no
	Indianapolis Pink				
	Wilson's White	Nov. 9	Nov. 9 - Nov. 28	Nov. 21	no
FEBRUARY 13, 1956	Little America				
	Delaware				
	Queen of Pinks	Nov. 16	Nov. 16 - Nov. 28	Nov. 28	no
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Nov. 9	Nov. 9 - Nov. 21	Nov. 21	no
	Blazing Gold	Dec. 7	Dec. 7 - Dec. 19	Dec. 19	no
	Queen's Lace	Nov. 30	Nov. 30 - Dec. 5	1st Dec. 5	
	Yellow Lace			2nd Jan. 2	no
	Indianapolis White ...				
FEBRUARY 20, 1956	Dk. Indianapolis Yel.	Nov. 30	Nov. 30 - Dec. 5	Dec. 5	no
	Indianapolis Pink				
	Wilson's White	Nov. 16	Nov. 16 - Dec. 5	Nov. 28	no
	Little America				
	Delaware				
	Queen of Pinks	Nov. 23	Nov. 23 - Dec. 5	Dec. 5	no
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Nov. 16	Nov. 16 - Nov. 28	Nov. 28	no
	Blazing Gold	Dec. 14	Dec. 14 - Dec. 26	Dec. 26	no
	Queen's Lace	Dec. 7	Dec. 7 - Dec. 12	1st Dec. 12	
	Yellow Lace			2nd Jan. 9	no
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Dec. 7	Dec. 7 - Dec. 12	Dec. 12	no
	Indianapolis Pink				
	Wilson's White	Nov. 23	Nov. 23 - Dec. 12	Dec. 5	no
	Little America				
	Delaware				
	Queen of Pinks	Nov. 30	Nov. 30 - Dec. 12	Dec. 12	no
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Nov. 23	Nov. 23 - Dec. 5	Dec. 5	no



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
FEBRUARY 27, 1956	Blazing Gold	Dec. 21	Dec. 21 - Jan. 2	Jan. 2	no
	Queen's Lace	Dec. 14	Dec. 14 - Dec. 19	1st Dec. 19	no
	Yellow Lace			2nd Jan. 16	
	Indianapolis White ...	Dec. 14	Dec. 14 - Dec. 19	Dec. 19	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Nov. 30	Nov. 30 - Dec. 19	Dec. 12	no
	Little America	Dec. 7	Dec. 7 - Dec. 19	Dec. 19	no
MARCH 5, 1956	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Nov. 30	Nov. 30 - Dec. 12	Dec. 12	no
	Blazing Gold	Dec. 28	Dec. 28 - Jan. 9	Jan. 9	no
	Queen's Lace	Dec. 21	None	1st Dec. 26	no
	Yellow Lace			2nd Jan. 23	
MARCH 12, 1956	Indianapolis White ...	Dec. 21	Dec. 21 - Dec. 26	Dec. 26	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Dec. 7	Dec. 7 - Dec. 26	Dec. 19	no
	Little America	Dec. 14	Dec. 14 - Dec. 26	Dec. 26	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
MARCH 19, 1956	Bonnaffon Deluxe	Dec. 7	Dec. 7 - Dec. 19	Dec. 19	no
	Blazing Gold	Jan. 11	Jan. 11 - Jan. 16	Jan. 16	no
	Queen's Lace	Dec. 28	None	1st Jan. 2	no
	Yellow Lace			2nd Jan. 30	
	Indianapolis White ...	Dec. 28	None	Jan. 2	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Dec. 21	Dec. 21 - Jan. 2	Dec. 26	no
	Little America	Dec. 28	Dec. 28 - Jan. 2	Jan. 2	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Dec. 21	Dec. 21 - Dec. 26	Dec. 26	no
	Blazing Gold	Jan. 18	Jan. 18 - Jan. 23	Jan. 23	no
	Queen's Lace	Jan. 4	None	1st Jan. 4	no
	Yellow Lace			2nd Jan. 30	
	Indianapolis White ...	Jan. 4	None	Jan. 9	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Dec. 28	Dec. 28 - Jan. 9	Jan. 2	no
	Little America	Jan. 4	Jan. 4 - Jan. 9	Jan. 9	no
	Delaware				
	Queen of Pinks				
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Dec. 28	Dec. 28 - Jan. 2	Jan. 2	no

CHRYSANTHEMUM MANUAL

Gloeckner

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
MARCH 28, 1955	Blazing Gold	Jan. 26	Jan. 26 - Jan. 31	Jan. 31	Mar. 22
	Queen's Lace	Jan. 12	None	1st Jan. 12	
	Yellow Lace			2nd Feb. 7	no
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Jan. 12	None	Jan. 17	no
	Indianapolis Pink				
	Wilson's White	Jan. 5	Jan. 5 - Jan. 17	Jan. 10	no
	Little America				
	Delaware				
	Queen of Pinks	Jan. 12	Jan. 12 - Jan. 17	Jan. 17	no
APRIL 4, 1955	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Jan. 5	Jan. 5 - Jan. 10	Jan. 10	no
	Blazing Gold	Feb. 2	Feb. 2 - Feb. 7	Feb. 7	no
	Granite State	Jan. 19	Jan. 19 - Jan. 31	Jan. 24	no
	Queen's Lace	Jan. 19	None	1st Jan. 19	
	Yellow Lace			2nd Feb. 14	no
	Illini Snowdrift				
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Jan. 19	None	Jan. 24	no
APRIL 11, 1955	Indianapolis Pink				
	Wilson's White	Jan. 12	Jan. 12 - Jan. 24	Jan. 17	no
	Delaware				
	Queen of Pinks				
	Portrait	Jan. 19	Jan. 19 - Jan. 24	Jan. 24	no
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Jan. 12	Jan. 12 - Jan. 17	Jan. 17	no
	Blazing Gold	Feb. 9	Feb. 9 - Feb. 14	Feb. 14	no
	Granite State	Jan. 26	Jan. 26 - Feb. 7	Jan. 31	no
APRIL 18, 1955	Queen's Lace	Jan. 26	None	1st Jan. 26	
	Yellow Lace			2nd Feb. 21	no
	Illini Snowdrift				
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Jan. 26	None	Jan. 31	no
	Indianapolis Pink				
	Wilson's White	Jan. 19	Jan. 19 - Jan. 31	Jan. 24	no
	Delaware				
	Queen of Pinks				
	Portrait	Jan. 26	Jan. 26 - Jan. 31	Jan. 31	no
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Jan. 19	Jan. 19 - Jan. 24	Jan. 24	no
	Blazing Gold	Feb. 16	Feb. 16 - Feb. 21	Feb. 21	no
	Granite State	Feb. 2	Feb. 2 - Feb. 14	Feb. 7	no
	Queen's Lace	Feb. 2	None	1st Feb. 2	
	Yellow Lace			2nd Feb. 28	no
	Illini Snowdrift				
	Indianapolis White ...				
	Dk. Indianapolis Yel.	Feb. 2	None	Feb. 7	Mar. 21
	Indianapolis Pink				
	Wilson's White	Jan. 26	Jan. 26 - Feb. 2	Jan. 31	Mar. 21
	Delaware				
	Queen of Pinks				
	Portrait	Feb. 2	Feb. 2 - Feb. 7	Feb. 7	Mar. 21
	Criterion				
	Humdinger				
	Bonnaffon Deluxe	Jan. 26	Jan. 26 - Jan. 31	Jan. 31	Mar. 14



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
APRIL 25, 1955	Blazing Gold	Feb. 23	Feb. 23 - Feb. 28	Feb. 28	no
	Granite State	Feb. 9	Feb. 9 - Feb. 28	Feb. 21	Mar. 28
	Queen's Lace	Feb. 9	None	1st Feb. 9	Mar. 28
	Yellow Lace			2nd Mar. 7	
	Illini Snowdrift				
	Indianapolis White ...	Feb. 9	None	Feb. 14	Mar. 21
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Feb. 2	Feb. 2 - Feb. 14	Feb. 7	Mar. 21
	Delaware				
	Queen of Pinks	Feb. 9	Feb. 9 - Feb. 14	Feb. 14	Mar. 21
	Portrait				
	Criterion				
	Humdinger				
MAY 2, 1955	Bonnafton Deluxe	Feb. 2	Feb. 2 - Feb. 7	Feb. 7	Mar. 14
	Blazing Gold	Mar. 2	Mar. 2 - Mar. 7	Mar. 7	Apr. 4
	Granite State	Feb. 16	Feb. 16 - Mar. 7	Feb. 28	Mar. 28
	Queen's Lace	Feb. 16	None	1st Feb. 16	Mar. 28
	Yellow Lace			2nd Mar. 14	
	Illini Snowdrift				
	Indianapolis White ...	Feb. 16	None	Feb. 21	Mar. 21
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Feb. 9	Feb. 9 - Feb. 21	Feb. 14	Mar. 21
	Delaware				
	Queen of Pinks	Feb. 16	Feb. 16 - Feb. 21	Feb. 21	Mar. 21
	Portrait				
	Criterion				
	Humdinger				
MAY 9, 1955	Bonnafton Deluxe	Feb. 9	Feb. 9 - Feb. 14	Feb. 14	Mar. 14
	Blazing Gold	Mar. 9	None	Mar. 14	Apr. 4
	Granite State	Feb. 23	None	Mar. 7	Mar. 28
	Queen's Lace	Feb. 23	None	1st Feb. 23	Mar. 28
	Yellow Lace			2nd Mar. 21	
	Illini Snowdrift				
	Indianapolis White ...	Feb. 23	None	Feb. 28	Mar. 21
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Feb. 16	Feb. 16 - Feb. 28	Feb. 21	Mar. 21
	Delaware				
	Queen of Pinks	Feb. 23	Feb. 23 - Feb. 28	Feb. 28	Mar. 21
	Portrait				
	Criterion				
	Humdinger				
MAY 16, 1955	Bonnafton Deluxe	Feb. 16	Feb. 16 - Feb. 21	Feb. 21	Mar. 14
	Blazing Gold	Mar. 16	None	Mar. 21	Apr. 4
	Granite State	Mar. 2	None	Mar. 14	Mar. 28
	Queen's Lace	Mar. 2	None	1st Mar. 2	Mar. 28
	Yellow Lace			2nd Mar. 28	
	Illini Snowdrift				
	Indianapolis White ...	Mar. 2	None	Mar. 7	Mar. 21
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Wilson's White	Feb. 23	Feb. 23 - Mar. 7	Feb. 28	Mar. 21
	Queen of Pinks				
	Portrait	Mar. 2	Mar. 2 - Mar. 7	Mar. 7	Mar. 21
	Criterion				
	Humdinger				
	Bonnafton Deluxe	Feb. 23	Feb. 23 - Feb. 28	Feb. 28	Mar. 14

CHRYSANTHEMUM MANUAL



Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
MAY 23, 1955	Blazing Gold	Mar. 23	Mar. 28	Apr. 4
	Granite State	Mar. 9	Mar. 14	Mar. 28
	Wilson's White			
	Queen's Lace	Mar. 11	1st Mar. 11	
	Yellow Lace		2nd Apr. 4	Mar. 28
	Illini Snowdrift			
	Indianapolis White			
	Dk. Indianapolis Yellow	Mar. 9	Mar. 14	Mar. 21
	Indianapolis Pink			
	Pacesetter			
	Queen of Pinks	Mar. 9	Mar. 14	Mar. 21
	Portrait			
	Criterion			
	Bonnaffon Deluxe	Mar. 2	Mar. 7	Mar. 14
MAY 30, 1955	Blazing Gold	Mar. 30	Apr. 4	Apr. 4
	Granite State	Mar. 16	Mar. 21	Mar. 28
	Wilson's White			
	Queen's Lace	Mar. 16	1st Mar. 16	
	Yellow Lace		2nd Apr. 11	Mar. 28
	Illini Snowdrift			
	Indianapolis White			
	Dk. Indianapolis Yellow			
	Indianapolis Pink			
	Pacesetter	Mar. 16	Mar. 21	Mar. 21
	Queen of Pinks			
	Portrait			
	Criterion			
	Bonnaffon Deluxe	Mar. 9	Mar. 14	Mar. 14
JUNE 6, 1955	Blazing Gold	Apr. 6	Apr. 11	Apr. 11
	Granite State	Mar. 23	Mar. 28	Apr. 4
	Wilson's White			
	Pacesetter			
	Portrait	Mar. 23	Mar. 28	Mar. 28
	Criterion			
	Queen's Lace	Mar. 23	1st Mar. 23	Mar. 23
	Yellow Lace		2nd Apr. 18	
	Illini Snowdrift			
	Bonnaffon Deluxe	Mar. 16	Mar. 21	Mar. 21
JUNE 13, 1955	Blazing Gold	Apr. 13	Apr. 18	Apr. 18
	Granite State	Mar. 30	Apr. 4	Apr. 11
	Wilson's White			
	Pacesetter			
	Portrait	Mar. 30	Apr. 4	Apr. 4
	Criterion			
	Queen's Lace	Mar. 30	1st Mar. 30	
	Yellow Lace		2nd Apr. 25	Mar. 30
	Illini Snowdrift			
	Bonnaffon Deluxe	Mar. 23	Mar. 28	Mar. 28



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
JUNE 20, 1955	Blazing Gold	Apr. 20	Apr. 25	Apr. 25
	Granite State	Apr. 6	Apr. 11	Apr. 18
	Wilson's White			
	Pacesetter	Apr. 6	Apr. 11	Apr. 11
	Portrait			
	Criterion			
	Queen's Lace	Apr. 6	1st Apr. 6	
	Yellow Lace		2nd May 2	Apr. 6
JUNE 27, 1955	Illini Snowdrift			
	Bonnaffon Deluxe	Mar. 30	Apr. 4	Apr. 4
	Blazing Gold	Apr. 27	May 2	May 2
	Granite State	Apr. 13	Apr. 18	Apr. 25
	Wilson's White			
	Pacesetter	Apr. 13	Apr. 18	Apr. 18
	Portrait			
	Criterion			
JULY 4, 1955	Queen's Lace	Apr. 13	1st Apr. 13	
	Yellow Lace		2nd May 9	Apr. 13
	Illini Snowdrift			
	Bonnaffon Deluxe	Apr. 6	Apr. 11	Apr. 11
	Blazing Gold	May 4	May 9	May 9
	Granite State	Apr. 20	Apr. 25	May 2
	Wilson's White			
	Portrait	Apr. 20	Apr. 25	Apr. 25
JULY 11, 1955	Criterion			
	Queen's Lace	Apr. 20	1st Apr. 20	
	Yellow Lace		2nd May 16	Apr. 20
	Illini Snowdrift			
	Bonnaffon Deluxe	Apr. 13	Apr. 18	Apr. 18
	Blazing Gold	May 11	May 16	May 16
	Granite State	Apr. 27	May 2	May 9
	Wilson's White			
JULY 18, 1955	Portrait	Apr. 27	May 2	May 2
	Criterion			
	Bonnaffon Deluxe	Apr. 20	Apr. 25	Apr. 25
	Blazing Gold	May 18	May 23	May 23
	Granite State	May 4	May 9	May 16
	Wilson's White			
	Portrait	May 4	May 9	May 9
	Criterion			
JULY 25, 1955	Bonnaffon Deluxe	Apr. 27	May 2	May 2
	Blazing Gold	May 25	May 30	May 30
	Granite State	May 11	May 16	May 23
	Wilson's White			
	Portrait	May 11	May 16	May 16
	Criterion			
	Bonnaffon Deluxe	May 4	May 9	May 9

CHRYSANTHEMUM MANUAL



Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
AUGUST 1, 1955	Blazing Gold	June 1	June 6	June 6
	Granite State	May 18	May 23	May 30
	Wilson's White			
	Portrait	May 18	May 23	May 23
	Criterion			
	Bonnaffon Deluxe	May 11	May 16	May 16
AUGUST 8, 1955	Blazing Gold	June 8	June 13	June 13
	Granite State	May 25	May 30	June 6
	Wilson's White			
	Portrait	May 25	May 30	May 30
	Criterion			
	Bonnaffon Deluxe	May 18	May 23	May 23
AUGUST 15, 1955	Blazing Gold	June 15	June 20	June 20
	Granite State	June 1	June 6	June 13
	Wilson's White			
	Portrait	June 1	June 6	June 6
	Criterion			
	Bonnaffon Deluxe	May 25	May 30	May 30
AUGUST 22, 1955	Blazing Gold	June 22	June 27	June 27
	Granite State	June 8	June 13	June 20
	Wilson's White			
	Portrait	June 8	June 13	June 13
	Criterion			
	Bonnaffon Deluxe	June 1	June 6	June 6
AUGUST 29, 1955	Blazing Gold	June 29	July 4	July 4
	Granite State	June 15	June 20	June 27
	Wilson's White			
	Portrait	June 15	June 20	June 20
	Criterion			
	Bonnaffon Deluxe	June 8	June 13	June 13
SEPTEMBER 5, 1955	Blazing Gold	July 6	July 11	July 11
	Granite State	June 22	June 27	July 4
	Wilson's White			
	Pacesetter			
	Red King			
	Delaware	June 22	June 27	June 27
	Queen of Pinks			
	Portrait			
	Criterion			
	Bonnaffon Deluxe	June 15	June 20	June 20



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
SEPTEMBER 12, 1955	Blazing Gold	July 13	July 18	July 18
	Granite State	June 29	July 4	July 11
	Wilson's White			
	Royal Bronze	July 6	1st July 11 2nd Aug. 1	July 11
	Pacesetter	June 29	July 4	July 4
	Red King			
	Delaware			
	Queen of Pinks			
	Portrait			
	Criterion			
	Bonnaffon Deluxe	June 22	June 27	June 27
SEPTEMBER 19, 1955	Blazing Gold	July 20	July 25	July 25
	Granite State	July 6	July 11	July 18
	Wilson's White			
	Royal Bronze	July 13	1st July 18 2nd Aug. 8	July 18
	Pacesetter	July 6	July 11	July 11
	Red King			
	Delaware			
	Queen of Pinks			
	Portrait			
	Criterion			
	Bonnaffon Deluxe	June 29	July 4	July 4
SEPTEMBER 26, 1955	Blazing Gold	July 27	Aug. 1	Aug. 1
	Granite State	July 13	July 18	July 25
	Wilson's White			
	Royal Bronze	July 20	1st July 25 2nd Aug. 15	July 25
	Pacesetter	July 13	July 18	July 18
	Red King			
	Delaware			
	Queen of Pinks			
	Portrait			
	Criterion			
	Bonnaffon Deluxe	July 6	July 11	July 11
OCTOBER 3, 1955	Blazing Gold	Aug. 3	Aug. 8	Aug. 8
	Granite State	July 20	July 25	Aug. 1
	Wilson's White			
	Royal Bronze	July 27	1st Aug. 1 2nd Aug. 22	Aug. 1
	Pacesetter	July 20	July 25	July 25
	Red King			
	Delaware			
	Barbara Fuller			
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
	Bonnaffon Deluxe	July 13	July 18	July 18

CHRYSANTHEMUM MANUAL



Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
OCTOBER 10, 1955	Blazing Gold	Aug. 10	Aug. 15	Aug. 15
	Granite State	July 27	Aug. 1	Aug. 8
	Wilson's White			
	Royal Bronze	Aug. 3	1st Aug. 8 2nd Aug. 29	Aug. 8
	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	July 27	Aug. 1	Aug. 1
	Queen of Pinks			
	Portrait			
OCTOBER 17, 1955	Criterion			
	Humdinger			
	Bonnaffon Deluxe	July 20	July 25	July 25
	Blazing Gold	Aug. 17	Aug. 22	Aug. 22
	Granite State	Aug. 3	Aug. 8	Aug. 15
	Wilson's White			
	Royal Bronze	Aug. 10	1st Aug. 15 2nd Sept. 5	Aug. 15
	Pacesetter			
	Red King			
	Delaware			
OCTOBER 24, 1955	Barbara Fuller	Aug. 3	Aug. 8	Aug. 8
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
	Bonnaffon Deluxe	July 27	Aug. 1	Aug. 1
	Blazing Gold	Aug. 24	Aug. 29	Aug. 29
	Granite State	Aug. 10	Aug. 15	Aug. 22
	Wilson's White			
	Royal Bronze	Aug. 17	1st Aug. 22 2nd Sept. 12	Aug. 22
OCTOBER 31, 1955	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	Aug. 10	Aug. 15	Aug. 15
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
	Bonnaffon Deluxe	Aug. 3	Aug. 8	Aug. 8
	Blazing Gold	Aug. 31	Sept. 5	no
	Granite State	Aug. 17	Aug. 22	Aug. 29
	Wilson's White			
	Royal Bronze	Aug. 24	1st Aug. 29 2nd Sept. 19	Aug. 29
	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	Aug. 17	Aug. 22	Aug. 22
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
	Bonnaffon Deluxe	Aug. 10	Aug. 15	Aug. 15



CHRYSANTHEMUM MANUAL

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Pinch	Shade
NOVEMBER 7, 1955	Blazing Gold	Sept. 7	Sept. 12	no
	Granite State	Aug. 24	Aug. 29	Sept. 5
	Wilson's White			
	Royal Bronze	Aug. 31	1st Sept. 5 2nd Sept. 26	Sept. 5
	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	Aug. 24	Aug. 29	Aug. 29
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
NOVEMBER 14, 1955	Bonnaffon Deluxe	Aug. 17	Aug. 22	Aug. 22
	Blazing Gold	Sept. 14	Sept. 19	no
	Granite State	Aug. 31	Sept. 5	Sept. 12
	Wilson's White			
	Royal Bronze	Sept. 7	1st Sept. 12 2nd Oct. 3	Sept. 12
	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	Aug. 31	Sept. 5	Sept. 5
	Queen of Pinks			
	Portrait			
	Criterion			
NOVEMBER 21, 1955	Humdinger			
	Bonnaffon Deluxe	Aug. 24	Aug. 29	Aug. 29
	Blazing Gold	Sept. 21	Sept. 26	no
	Granite State	Sept. 7	Sept. 12	no
	Wilson's White			
	Royal Bronze	Sept. 14	1st Sept. 19 2nd Oct. 10	no
	Pacesetter			
	Red King			
	Delaware			
	Barbara Fuller	Sept. 7	Sept. 12	Sept. 12
	Queen of Pinks			
	Portrait			
NOVEMBER 28, 1955	Criterion			
	Humdinger			
	Bonnaffon Deluxe	Aug. 31	Sept. 5	Sept. 5
	White Lady	Aug. 24	Aug. 29	Aug. 29
	Beautiful Lady			
	Blazing Gold	Sept. 28	Oct. 3	no
	Granite State	Sept. 14	Sept. 19	no
	Wilson's White			
	Royal Bronze	Sept. 21	1st Sept. 26 2nd Oct. 17	no
	Pacesetter			
	Red King			
	Delaware			
NOVEMBER 28, 1955	Barbara Fuller	Sept. 14	Sept. 19	no
	Queen of Pinks			
	Portrait			
	Criterion			
	Humdinger			
	Bonnaffon Deluxe	Sept. 7	Sept. 12	Sept. 12
NOVEMBER 28, 1955	White Lady	Aug. 31	Sept. 5	Sept. 5
	Beautiful Lady			

CHRYSANTHEMUM MANUAL

Gloekner

Year-Around Pot Plant Schedule

ONE-PINCH METHOD

Flower	Varieties	Plant 5 or 6 cuttings in 6" pot	Lighting Period	Pinch	Shade
DECEMBER 5, 1955	Granite State	Sept. 21	Sept. 21 - Oct. 3	Sept. 26	no
	Wilson's White				
	Queen's Lace	Sept. 21	None	1st Sept. 21	no
	Yellow Lace			2nd Oct. 10	
	Pacesetter	Sept. 21	Sept. 21 - Sept. 26	Sept. 26	no
	Little America				
	Delaware				
	Queen of Pinks				
	Portrait				
	Criterion				
	Bonnafton Deluxe	Sept. 14	Sept. 14 - Sept. 19	Sept. 19	no
DECEMBER 12, 1955	Granite State	Sept. 28	Sept. 28 - Oct. 10	Oct. 3	no
	Wilson's White				
	Queen's Lace	Sept. 28	None	1st Sept. 28	no
	Yellow Lace			2nd Oct. 17	
	Indianapolis White ...	Sept. 28	None	Oct. 3	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Pacesetter				
	Little America	Sept. 28	Sept. 28 - Oct. 3	Oct. 3	no
	Delaware				
	Queen of Pinks				
	Portrait				
	Criterion	Sept. 21	Sept. 21 - Sept. 26	Sept. 26	no
	Bonnafton Deluxe				
DECEMBER 19, 1955	Granite State	Sept. 28	Sept. 28 - Oct. 17	Oct. 10	no
	Wilson's White				
	Queen's Lace	Sept. 28	None	1st Sept. 28	no
	Yellow Lace			2nd Oct. 24	
	Indianapolis White ...	Oct. 5	Oct. 5 - Oct. 10	Oct. 10	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Pacesetter				
	Little America	Sept. 28	Sept. 28 - Oct. 10	Oct. 10	no
	Delaware				
	Queen of Pinks				
	Portrait				
	Criterion	Sept. 21	Sept. 21 - Oct. 3	Oct. 3	no
	Bonnafton Deluxe				
DECEMBER 26, 1955	Granite State	Oct. 5	Oct. 5 - Oct. 24	Oct. 17	no
	Wilson's White				
	Queen's Lace	Oct. 5	None	1st Oct. 5	no
	Yellow Lace			2nd Oct. 31	
	Indianapolis White ...	Oct. 12	Oct. 12 - Oct. 17	Oct. 17	no
	Dk. Indianapolis Yel.				
	Indianapolis Pink				
	Little America				
	Delaware	Oct. 5	Oct. 5 - Oct. 17	Oct. 17	no
	Queen of Pinks				
	Portrait				
	Criterion				
	Bonnafton Deluxe	Sept. 28	Sept. 28 - Oct. 10	Oct. 10	no

Better Chrysanthemums

CUTTINGS

To grow good Chrysanthemums, the first requisite is to start with Verticillium wilt and stunt-free cuttings. Wilt-free cuttings are easily secured. Now with the extreme care in selecting stunt-free stock and with careful handling, we are very optimistic in stating that stunt should be practically nil in the stock for the coming season.

Handling Cuttings

The cuttings you receive have been propagated in a material containing some organic matter which naturally has some plant food. Consequently these cuttings can be planted directly into the final location. Ordinarily they will not require shading, but if they have been several days in transit and have softened up some, or if they are planted during warm, bright weather, shading with aster cloth or paper is advisable. Under no circumstances leave the covering on the plants during dull weather or at night. It is well to syringe the plants frequently until they stand up and are showing signs of growth. Some evidence shows that watering with a starter solution (weak nutrient solution) within 48 hours after planting will speed up the growth.

Deliveries

With the advent of the time pinch and the precision method of culture, it is necessary to have your cuttings arrive at a definite date. To insure proper delivery, you must plan your cutting requirements months in advance of the date wanted. We would appreciate it if you could let us know your requirements so that our propagator can plan his growing of stock plants and cuttings even more systematically than he does.

To facilitate deliveries, cuttings will be shipped on Mondays and Tuesdays of each week.

Delays

With the reduced delivery schedule of the Railway Express Agency, there may be delays in delivering your shipments. Chrysanthemum cuttings can be injured from cold as well as being too long in transit. If the cuttings are slightly wilted, they should be immersed in water for a short period and then planted. They will

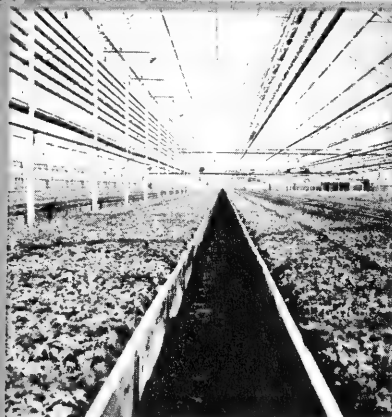
react perfectly to such treatment. If the cuttings have been slightly frozen, placing them in a cool room and thawing them out gradually, or placing them in a pail of cool water to take the frost out will bring them through so that they will do just as well as cuttings that have had nothing happen to them. Of course, if stock is badly frozen, or if long delays have occurred so that the cuttings are heated, yellow or rotted, **you should file a claim at once with the express company.**

Air Freight

We have been very well satisfied with the use of Air Freight to deliver rooted cuttings this past season. Customers who are close to an airport are naturally served better than those who have to have their shipment reconsigned via Railway Express. **If you plan to use air freight, you should have your telephone number appear on all shipping labels.**

Premature Budding

Bud initiation can occur anytime during the spring months, whenever your temperatures in the greenhouses are consistently 60 degrees Fahrenheit or above, and the days are short enough to initiate bud setting. These conditions can occur anytime up until May 1st depending upon the variety and the locality in which they are being grown. Some varieties, such as the garden varieties and early shading varieties, require very little short-day treatment, coupled with high temperatures to initiate buds. This same tendency to set bud readily is what makes these varieties desirable for early shading and garden work. In order to prevent this premature setting of buds, these same varieties should be placed where they can be given additional light during the early spring months. Use 60-watt bulbs spaced 4 feet apart and 24 inches above the plants. Three hours of light during the middle of the dark period will prevent budding completely if the minimum intensity is 8-foot candles. The same treatment on either end of the night might not be effective if you have a particularly cloudy period which gives you extremely short day.



Strong Cuttings Spaced Well in Propagation Medium Will Produce Healthy Well-Rooted Cuttings

Cultural Pointers

SOILS

Chrysanthemums will grow in a wide range of soil types, but a fibrous silt-loam is preferred. Blue grass sod, to which rotted manure has been added, plus an application of superphosphate will give excellent results. The reason for the great care in soil preparation is to permit penetration of water and a uniform supply of fertilizer. If water remains on the surface of your soil for more than a few moments after watering, your soil is not of good structure.

Acidity

Evidence shows that the soil reaction should be slightly acid, pH 6.5, although in many instances a neutral medium does very well. If your soil tests slightly alkaline, apply one-half to one pound of agricultural sulfur per 100 sq. ft. of area. However, if your soil is acid, apply 3 to 5 pounds of agricultural ground limestone per 100 sq. ft. of area.

Steam Sterilization

Steam sterilization is the only practical means known to destroy the Verticillium wilt organisms present in many soils. The cuttings you purchase are free from wilt, but if planted in soil that is not steam sterilized, many will contract the trouble.

Old soil, when properly managed, will give results comparable to fresh soil. Add a quarter of the volume of humus in the form of manure or peat moss. Steam sterilize to destroy the Verticillium wilt fungus, as well as improve the structure of the soil. Steam sterilization may be done with the use of 3-inch tile or down spouting with one-eighth inch holes drilled every 6 inches on each side of the pipe. Use 2 lines in a three and one-half foot bench. Ridge the soil to the center of the bench directly over the lines, cover with balloon cloth or other plastic material. The Thomas method is very

similar, with the exception that the pipe is laid on top of the rototilled soil and then covered so as to make it air-tight. The Thomas method is not recommended where purlin posts are in the bench.

By introducing the steam in the center of a 100-foot bench and sending the steam in both directions, a more thorough sterilization is accomplished than if the steam were to be forced in at the end of the 100-foot bench. Cover the sides of the benches so that the entire bench and contents are heated to 180 degrees Fahrenheit. Remove the covering one hour after the steam has been cut. This allows the excess moisture to pass from the soil as vapor. We are now recommending that you plant immediately after the soil has cooled. Water in the plants heavily so that you are combining watering and leaching into one operation. Continue to water heavily every time you water.

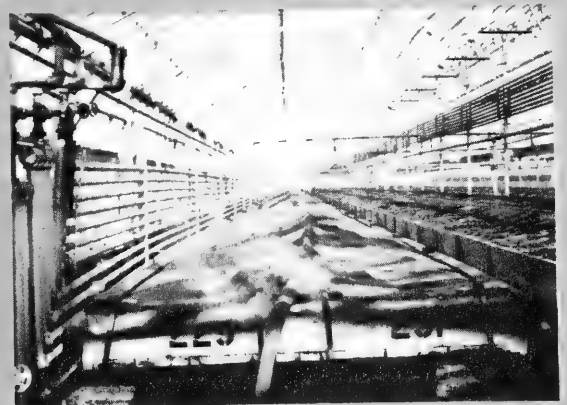
Chemical Sterilization

A chemical which has proven its worth is Larvacide. This material must be used when the greenhouses are empty to avoid injury to adjoining crops. This gas is applied in liquid form with a special applicator so that 2 or 3 c.c. are applied at 10-inch centers. The soil should be moist before applying. A good suitable covering should be placed over the treated soil to keep the gas in the soil for at least 48 hours, although a water seal applied 2 to 3 times every 24 hours will suffice. The soil temperature should be at least 60 degrees or higher. When used properly you can expect favorable control of insects, diseases and weed seeds.

Dowfume MC 2 has been tried and found to control nematodes, weed seeds, and some damping-off organisms. Best results are obtained when the soil temperature is above 60 degrees. About the same procedure should be followed in its application as that described for Larvacide.



Supporting Standards with Wires and Cross Strings.



Thomas Method of Steam Sterilization

Cultural Pointers

SOILS — (Continued)

Aeration

Proper drainage and proper aeration of the soil are very vital to good growth. Many times improper drainage of the bench or bed is the reason for a poor crop. No wet spots should ever be present. Soil drainage may be improved by the addition of various materials. Any coarse organic material such as manure, alfalfa hay or clover hay applied at a rate not to exceed one-fourth the volume will separate the soil particles sufficiently to increase pore space.

Adding several bushels of peat per 100 sq. ft. of bench area before planting and worked into the top inch of the soil will help keep the surface open and porous. Heavy applications of sand to a soil have not always proven of value to a chrysanthemum crop. Aeration may also be increased by proper cultivation of the soil.

Soil Management

Soils vary a great deal over the country, and yet many good crops of chrysanthemums are grown on all types of soil. Soil itself is not the most important factor, but soil management is of extreme importance. In considering the management of the soil, the following steps are suggested:

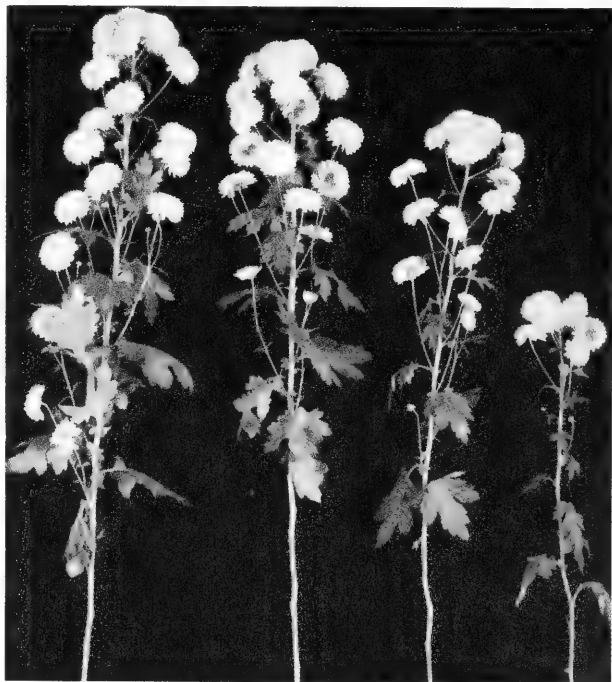
1. Apply a quarter of the volume of manure or other organic substitute once a year, usually just before steam sterilization. Rototill organic matter into the soil. When growing on ground beds, watch the tilling so that no impervious layer is formed which will later cause poor drainage.
2. Steam sterilize the soil to a temperature of 180 degrees Fahrenheit at least once a year. Usually this is done during the summer months.
3. Apply 5 pounds of super phosphate per 100 sq. ft. of area once a year.
4. After each steam sterilization apply 5 pounds of gypsum (Calcium sulfate) per 100 sq. ft.
5. Test soil for acidity and make correction before planting.

6. Add several bushels of granular peat per 100 sq. ft. of area before planting and working into the top inch of the soil.
7. Plant immediately after the soil cools. Waiting a week or two will increase the soluble salts into a dangerous concentration.
8. Water heavily after planting so that you are combining watering and leaching. Continue to water heavily until the plants have become well established.

9. Maintain the following nutrient levels:

Nitrate Nitrogen	5-10 p.p.m.
Phosphorus	5-10 p.p.m.
Potassium	20-40 p.p.m.
Calcium	200-250 p.p.m.
Solubridge reading	40 or lower

10. Apply a complete fertilizer at time of bud initiation. Heavy watering and frequent light fertilizing will make chrysanthemums grow.



Terminal Spray Formation Resulting from Time Pinching Showing Weight Grades

Cultural Pointers

FERTILIZERS

Soil structure is the key to soil fertility. The response of chrysanthemums to fertilization depends upon a favorable soil structure. It is known that plants require nutrients, water and air for growth. Good soil structure will provide proper air and water relationships. Therefore, it behooves us to give proper attention to the soil before starting the crop. Good open soil is a necessity.

Feeding

Chrysanthemums do much better right from the start if the soil is not too rich. Very often this crop will start off faster in new soil as compared to old soil that has been sterilized just because of the lower nutrient level in new soil. When using new soil, apply 5 pounds of superphosphate per 100 sq. ft. of area, plus a liberal application of manure before planting. Phosphorus moves slowly within the soil mixture. It should always be added before the crop is benched so that it may be mixed thoroughly into the soil. One to two applications of a complete fertilizer, such as Electra, made after the plants become established and until color shows will be adequate. Electra applied at the rate of 2 pounds per 100 sq. ft. of bed is sufficient. Never apply fertilizers to a dry soil. Water lightly first, then apply the proper quantity of fertilizer, and then water heavily. Liquid feeding with water-soluble fertilizers is fast becoming the popular method of applying fertilizer. **Remember that the plant is the best guide to fertilizer requirements and that more mums are ruined by over-feeding than by nutrient deficiencies.**

Levels of Nutrition

When using sterilized soil, the best recommendations to follow would be to analyze your soil from time to time. We have found that when the following nutrient levels are kept, good crops are the result. **Nitrate nitrogen should be 5-10 p.p.m.; phosphorus 5-10 p.p.m.; potassium 20-40 p.p.m. and calcium near 200 p.p.m.** To increase the nitrate level, feed one pound of ammonium sulfate per 100 sq. ft. of area, and to bring up the potassium, apply muriate of potash not to exceed 1 pound per 100 sq. ft. If phosphorus is needed, apply mono-calcium phosphate at the rate of 1 pound per 100 sq. ft.

A liberal application of calcium sulfate (gypsum), 5 pounds per 100 sq. ft., after steam sterilization will prevent injury to young roots. High phosphorus also reduces toxicity after sterilization.

In the cooler weather and shorter days of September, omit the nitrogen if the plants are growing freely. The mum assimilates more phosphorus and potassium during the time of bud initiation. Therefore, it is desirable to apply a complete fertilizer shortly after the buds are visible.

Soluble Salts

Soluble salts are chemical compounds consisting of an acid part (ion) and a basic part (ion). For example,

common table salt, sodium chloride, consists of one ion of chloride and one of sodium. Chloride is an acid-forming ion, and sodium a basic or alkali-forming ion. The two combine in chemically equivalent quantities to form a neutral salt. Other common acidic ions are sulfate, nitrate, bicarbonate and phosphate. Other common basic ions are calcium, magnesium, potassium and ammonium. Any basic ion may combine with any acidic ion giving rise to a great variety of salts.

All plant nutrients which are absorbed by plants from the soil or from culture solutions are absorbed in the form of salts or their constituent ions. All organic materials become "mineralized" through decay processes, and the nutrients in them are converted into salts before being absorbed by plants. Some salts contain plant nutrients and are beneficial in the small quantities required for plant growth. Others contain no nutrients. All salts are harmful beyond the small quantity required for plant growth. A little is bad, more is worse, up to the point where plants will be killed. Salts are found in most water and are applied as fertilizer. Improper watering may permit a concentration into the harmful range. Instruments called Wheatstone's bridges are available which measure total soluble salts in terms of electrical conductivity or conductance. Many laboratories of the Agricultural Extension Service are equipped with Solubridge instruments for use in assisting with soluble salt problems.

It has been found that **when planting rooted cuttings, the Solubridge readings should not be higher than 40**, while established plants do not withstand readings of 100 without showing some harmful effects. To remedy excess soluble salts, apply 2 to 3 gallons of water per sq. ft. and leach out this high salt content.



Cultural Pointers

PLANTING

Chrysanthemums grow equally as well on a raised bench or on a ground bed. The care is slightly different in that raised benches dry out more frequently during the summer and early fall months. It must be remembered that a good circulation of air is desirable, yet a direct draft is not advisable.

Planting Date

The proper date of planting will naturally vary according to when the crop is to bloom. For natural blooming we prefer to plant 3 or 4 weeks before the last pinching date. When flowering from August to October, we suggest you plant 3 weeks before the pinching date. In the year-around flowering schedule where no pinch is followed, we have given the advised planting dates in that schedule.

Planting Rooted Cuttings

Many florists are planting rooted cuttings directly into permanent locations. This not only reduces several handlings and production costs, but also produces a better-quality bloom. We fully realize that it is often an impossibility for all to treat their chrysanthemums this way. However, we have found that young, soft plants are superior to hard, woody plants. Never plant cuttings any deeper than what they were in the propagating media; too deep will cause stem rot. Water heavily after planting. If new white roots are not formed within the first 12 hours, something is not quite right.

Single-Stem or No-Pinch Method

Cuttings are planted and allowed to grow without pinching. It is an essential practice if 3 crops a year are to be realized in the year-around flowering schedule. Where crops are planted from September 15 to February 1, no-pinch method produces a superior crop, whereas a pinched crop is weaker and of poorer quality.

Light Intensity

When planting rooted cuttings into their permanent position, it is necessary to shade the glass or to put aster cloth directly over the young plants until they are established. When shading the glass, be sure that the material is applied lightly.

When growing quality chrysanthemums, the higher the light intensity or the least amount of shade over the plants during the growing season, the better the quality of bloom. Shade on the glass is only there for the convenience of the grower and not for the require-

ments of the plant. For cloth houses, the amber Saran is superior to the green because of more light under the amber covering. Naturally the plants require more water when growing under high light intensities.

It is recommended to shade the plants when flowers are about one-half open to prevent them from sunburning. When growing standards, a good practice would be to stretch muslin directly over the open blooms. This not only prevents sunburning but also keeps the blooms free from dirt.

Distance of Planting

For good quality pompons, we prefer to plant 7x8 inches or 8x8 inches pinched once, and thin the shoots to 3 per plant. The outside rows will support one more stem than the center rows in the bed. Nothing is gained by planting at a closer distance. Light intensity should be high at the base of the plant for quality blooms, and if planted too closely, we have lost the factor which promotes quality. Large-flowered varieties are generally planted 8x8 inches or 8x7 inches; this also applies to disbud anemone and single varieties.

For single stem, no-pinch method pompons should be spaced 4x6 and standards 5x6. When further spacing is used the sprays of the pompons become too large. A slightly closer spacing is recommended when growing conditions are more favorable.

**PLANTING DISTANCE FOR
NO-PINCH METHOD**

Pompons	4 x 6 inches
Standards	5 x 6 inches



Applying Additional Light to an Entire House

Cultural Pointers

PINCHING

For a good number of years, the reason for pinching was to regulate the number of stems on the plant. In recent years, we have learned that in the case of pompons or singles the pinching determines the type of spray formation. With standards, pinching will determine the type of bud formation, whether it be a crown or terminal bud.

Time Pinching

The precision culture of chrysanthemums is all set up around the "Last Pinch." To grow a quality pompon, you should receive the rooted cuttings sometime in June, July or August and then plant into the permanent location approximately 3 weeks before the date listed in our list of varieties under pinch date.

Under the heading "Chrysanthemum Flowering Schedule" you will find the exact pinching dates for all planting dates. The table below will indicate the time to pinch after planting, according to various planting dates:

When planting **Nov. 15 to Feb. 14 allow 4 weeks** plant to pinch.

When planting **Feb. 15 to Nov. 14 allow 3 weeks** plant to pinch.

Time pinching standards will eliminate the formation of the crown bud and produce terminal buds which will in turn produce a much straighter flowering stem.

Pruning

Another important factor is to remove all shoots but 3 or 4 per plant. In a few instances only 2 shoots are allowed to mature. Allow more shoots to develop on the outside rows than on the center rows of a bed. When fewer breaks are selected, the planting distance should be closer. If you prefer to have a number of

smaller sprays, with fewer blooms open at one time, follow the double-pinching procedure.

Standards are usually pinched once to induce breaks so that they may be grown 2 per plant. The strongest breaks are selected and all others removed. It is well to pinch on the date suggested in the general list. Careful observation has shown us that neckiness with some varieties is eliminated by pinching on the respective dates. Singles and anemones are usually grown 3 to 4 stems per plant.

Condition of Plant

When pinching, remove only the soft growth, never cut into the woody stems as this will not produce the type of breaks you desire. It is our experience that it is best not to pinch until the plant has become well established in its permanent location. In all cases, it is better to have at least 8 to 10 inches of growth on the plants before pinching. (Photos below.)

When double pinching, pinch the first time 30 days before the "Last Pinch." This allows enough time to produce a growth long enough to pinch at the proper time.

If by chance you are delayed in planting, and your plants will be too tall, it is advisable to pinch early enough before benching so that the breaks will be several inches long at time of planting. Never pinch hard plants at the same time they are planted in the bench as a heavy loss may result. Better wait until plants are established and then pinch.

The pinching dates given after each week response will help you grow that variety to excellency. Remember that pinching is just one cultural point and will only function when all other cultural points are carried out properly.



Well-Established Young Plant



Top Several Inches Removed



Strong Breaks Resulting from Single Pinch



CHRYSANTHEMUM MANUAL

Cultural Pointers

DISBUDDING

Large-flowered varieties produce side shoots in the axils of the leaves which should be removed very close to the base at regular weekly intervals. Disbuds are handled the same as standards.

Taking Bud

Taking bud means allowing the flowering bud to remain and removing all others and applies to standards and disbuds. The chrysanthemum usually produces two distinct types of flowering buds—Crown and Terminal. The first bud produced is called the crown bud and is distinguished by being surrounded by other lateral leaf buds. The second is the terminal bud and is surrounded by several flower buds. If the plant is planted especially early, a second crown bud may appear. In appearance, this second crown bud is exactly the same as the first.

The procedure of "Taking Bud" depends very largely on the variety. Usually the safest rule to follow is not

to select a bud on early or midseason varieties before August 25. In our list of large-flowered varieties under "Select Bud" you will find the date on which to select the proper bud. If bud is selected too early, a large percentage of the flowers will be crippled. Good common sense must be used to determine the proper selection of bud.

The formation of the crown bud usually does not take place when pinching plants on the date of their response group. When following "Time Pinch," select the first bud that appears. This will result in straight stems without the dogleg growth that appears when second bud is taken.

The final selection of bud should not be made when the cluster buds are too small as this will very likely cause injury to the stem near the bloom. Likewise, it is not advisable to delay selecting the bud too long. Some growers like to leave an alternate bud until they are certain that nothing will happen to the one finally selected.

DISBUDDED SPRAY

The procedure in growing disbudded sprays is to wait until the crown bud forms, then remove all but three vegetative shoots. Later, when terminal buds appear, disbud each shoot similarly to the normal disbudding of standards. When the blooms mature, there are three flowers on each spray. In singles and anemones, the size of the blooms will be a trifle smaller than when they are grown as one flower per stem. Raise 3 stems per plant, similar to straight disbud. Varieties such as

Goldsmith, Valencia, etc., can be grown as disbudded sprays.

Good chrysanthemums result from the careful thorough practice of the basic principles of plant growth, plus the acknowledgment of certain differences in the nature of various varieties. Growing disbudded sprays is a modification in culture which is very much worthwhile.



Early or Crown bud surrounded by lateral buds



Late or Terminal bud surrounded by flower buds



Late or Terminal bud selected

Cultural Pointers

WATERING

The knowledge of proper watering is essential to success. Chrysanthemums produce extremely heavy foliage, and a great deal of water is required at the roots. And under ordinary conditions of bench culture, overwatering would be difficult. When grown in beds, more care should be exercised in watering. Some soils look wet on the surface but are very dry several inches below.

When planting rooted cuttings directly into their permanent locations, it is essential to water thoroughly to set the soil around the plant roots. We suggest double watering again when the soil gets on the dry side. By this time, the plants are established and regular watering should be followed. Keep humidity in the house by wetting down bench and walks.

Steam sterilization causes the soil to become more granular, and capillary movement of water in it is much slower than in soils not steamed. Cuttings planted in it cannot obtain water readily, and for this reason should be kept more moist than in soils not sterilized.

Surface Watering

During the past several years, many labor-saving devices have been developed. Surface watering is one that will save many hours of hand watering your chrysanthemum crop.

The Skinner Superior nozzle is the final answer to the exacting requirements of surface watering. An absolutely flat uniform spray is obtained over a full circle with a constant pattern under any pressure. This nozzle throws a fine spray 5 feet in diameter at 5

pounds pressure at the nozzle, and uses 0.9 gallons per minute.

When installing surface watering, check your water supply and the capacity needed to irrigate your area. It is advisable to have an engineer figure out your requirements.

Leaching

Many greenhouse soils are excessively rich, and chrysanthemums will not thrive in such a medium. If this is the case, the remedy is leaching with water. After the soil is sterilized, it should be leached. Use a Skinner line and allow it to run for hours if necessary. Raised benches do not require as much water to leach.



Superior Nozzle Showing Uniformity of Pattern

GRAFT INDEXING

Graft indexing to eradicate stunt has become standard procedure with Yoder Brothers, Inc. This was made necessary by the fact that certain varieties express visual symptoms of the virus much more readily than others. There are some varieties which are seemingly tolerant to stunt and which have never been known to express clear-cut symptoms of stunt virus. Others, such as Blazing Gold, for example, will indicate the usual symptoms very readily. In order to check those which do not express the usual symptoms readily, the technique of graft indexing was developed whereby a variety such as Blazing Gold serves as the understock and the variety to be checked for virus is grafted on to Blazing Gold. By this method, it can be told

within 2 months whether stunt virus is present or not. By making selections in this manner, it is possible to eventually select out mother stock of all varieties, and by careful isolation practices, maintain them stunt-free. Until this is accomplished, there will be the chance that certain few varieties, although they do not show any symptoms, may be carriers of the virus and act as sources of infection for other varieties.

Several other virus expressions have made their appearance since stunt. You probably have heard of **Mosaic, Aster Yellows, Rosette and Asperimy**. Fortunately, by the use of the above technique, these are isolated early, before any of them will have become so widespread as to cause any great difficulty.

Cultural Pointers

TEMPERATURE AND LIGHT

Chrysanthemums grow most rapidly under conditions of high light intensity and with a temperature above 60 degrees Fahrenheit. Shading to reduce the light intensity is very rarely needed. Usually shading on the glass is more beneficial to the workers than it is for the growth of the plants. However, if shade is used it should be removed by August 15.

Temperatures much above 90 degrees will act as a prohibitor. When the night temperatures are in the 90's, bud development is hindered. This is especially true when black-clothing in the hottest part of the year. To reduce high temperatures under the black cloth, it is suggested that the sides of the cloth be lifted after sundown and dropped again before the sun rises in the morning. During high temperature periods, it is much better to apply the cloth later in the afternoon and allow it to remain later in the morning.

Temperature has been responsible for peculiar types of flowers. The Indianapolis varieties develop quilled and flat blooms when allowed to develop under low temperatures. Many varieties will develop black centers in the flower when grown under high temperatures and low light intensity.

Pink and bronze colors just do not develop when the temperatures are high in the early stages of flower development. If good color is desired in pink and bronze varieties the night temperature should be 50 to 55 degrees during the development period. High light intensity and low temperatures are conducive for good color development. Many of the newer varieties will develop better color during hot summer months than the older varieties. Low moisture during the period of bud development intensifies the color. The pinking of white varieties and the bronzing of yellow varieties results as the flowers develop at low temperatures.

Blindness

Blindness is associated with temperature. When plants are grown below 50 to 55 degrees during the bud initiation period, many varieties will produce blind growth. In "Year-Around Flowering" we have found that chrysanthemums should be grown in a 60-degree temperature to insure good bud development. However, there are some varieties which require a higher temperature, and there are likewise varieties that will initiate their buds at a lower temperature; but it is safe to recommend a 60-degree temperature. Cornell workers found that growing the stock at different temperatures will affect the flowering of some varieties.

Petal Burn

When blooming chrysanthemums during high temperatures and high light intensity, it is advisable to cover the beds with a cheesecloth stretched about 18 inches above the top of the developing blooms. This covering will also help keep dirt off the open blooms. Sunburn sometimes is confused with flower ray blight, which is caused by *Botrytis*. *Botrytis* is more abundant during periods of high humidity and low temperatures. Ray blight can be controlled by spraying with **Parzate** when the color shows and then repeating the application every 5 days.

Shipping Flowers

Packing of cut flowers should be carefully studied. The most common error is over-crowding in the shipping boxes. Not securely fastening the blooms in the box will cause bruising of the petals. Cleating or sewing the stems to the box is essential. Cushion the blooms by placing enough padded paper on the bottom of the corrugated box and between the layers of blooms. Wrap the pompons with a loose wrapper. The wrapping paper could have the name of the grower printed on it. Chrysanthemum "Saf-Pak" are very helpful in shipping standards to market. One dozen blooms are held securely in one "Saf-Pak" holder.

Long distance shipments carry better if the cut flowers are packed dry. Reduction of temperature is accomplished by precooling the packed cut flowers.

Supports

With high labor costs, it has become necessary to eliminate some of the labor in supporting standards and disbuds. The old way of supporting with stakes or stringing each plant has given way to the box-wire and cross-string method of support. Turn-buckles placed near the end of the bed will keep the wires much tighter. Some growers are only using one layer of wire and cross strings and are gradually raising it as the crop grows. Many still use two layers of wires and also raise the top wire as the crop grows.

Pompons are usually supported by the string and wire method similar to that described above. Two layers of wires are necessary to give the pompons good support. When growing out-of-doors or in cloth houses, heavier wire is necessary to give proper support, because moisture often collects in the open blooms causing extra weight.

Cultural Pointers

SOUTHERN CULTURE

It is true the material presented in this manual is primarily from experience gathered for the northern part of the United States. Yet many of the pointers are similar for all parts of the country.

We have noted that the early-flowering varieties from October 15 to November 1 flower approximately one week later in the southern states, while those flowering naturally November 15 to December 1 bloom one week earlier than the dates given in this manual. Last Pinch dates will have to be governed accordingly.

When shading, it has been suggested that the black cloth be placed on the beds late in the evening, 7 or 8 p.m. and left on until 8 or 9 a.m. Shading the usual time traps the excessive heat under the cloth and appears to affect foliage and flower buds. Pink and

bronze varieties used for shading and early normal production fade to inferior colors.

During the months of July and August, little growth may be expected, therefore fertilization should be kept to a minimum. When the nights get cooler in September, October and November, growth is more rapid, and the fertilization program should be stepped-up accordingly.

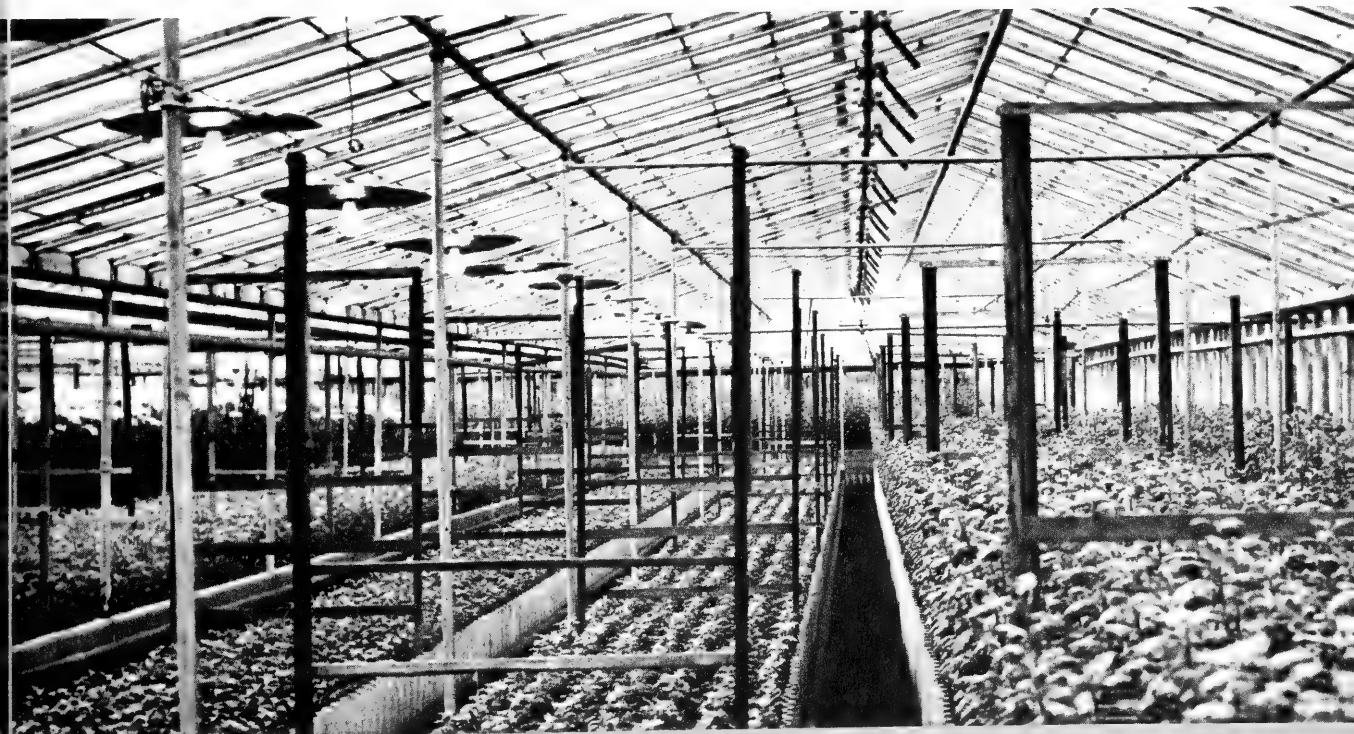
The young plants should be illuminated until May 1 to prevent premature flower buds.

The length of day is constantly changing. In Ohio the shortest day has 9 hours of light, while the longest day length is 15 hours. In Florida, it varies from 10 for the shortest and 14 for the longest. In Ohio, the day length will change about 15 minutes each week.

Cloth Houses

Much has been written about the construction and care of the cloth house. It seems that this subject is well taken care of, although there are a few new ideas that should be mentioned.

To grow quality stock, it is necessary to use some type of covering such as aster cloth, onion bag or Saran. Saran plastic shade cloth woven from flat, elliptical yarn is now available to give varying percentages of shade. Cloth can be obtained that will cast 46% to 90% of shade. The cloth that casts 46% shade is recommended for chrysanthemum culture. Saran will outlive copper screening.



*A Single Line of 100-Watt Mazda Lamps Spaced Six Feet Apart
Is Sufficient to Light Two Beds.*

Insects and Their Control

Aphids, or Plant Lice

All aphids are true sucking insects that insert their beaks through the surface of the leaf or stem and extract the juices from within.

INJURY. The feeding of aphids causes the plants to become sickly and stunted. The leaves curl inward, and when the flower terminal is infested, the blooms will be deformed. Certain varieties of chrysanthemums are more susceptible to attack than others.

CONTROL. **Nicofume Fumigation** is an easy method of controlling the black aphid but will do very little to control the green or straw-colored aphids. **Lindane** or **Parathion** is much more effective on the very resistant green or straw-colored aphids. **Vapotone** is also effective when used at higher concentrations. **Malathion** good for control of aphid and spider mite.

Chrysanthemum Leaf Miner

The larva or maggot disfigures and weakens chrysanthemum plants by mining in the leaves. It may do considerable harm to the crop, but is easily held in check.

INJURY The young maggots burrow in the leaf tissue, leaving the upper and lower surfaces intact. The tunnels are irregular and winding. White blotches are thus formed, which later turn brown, and the leaves may die.

CONTROL. As soon as it is noticed that any leaves are infested, they should be picked off. **Parathion** or

TEPP aerosol bombs or sprays, containing **Lindane**, **Chlordane** or **Parathion**, are very effective.

Chrysanthemum Midge

The chrysanthemum midge is one of the most serious pests with which the grower has to deal. Under optimum conditions, a little over a month is required to complete the life cycle from the egg to the adult. The eggs are reddish-orange in color and are usually deposited on the tender tips of the growth. Under favorable conditions, the eggs hatch in about three days. The larva wanders about over the surface of the leaf for a day or two before finally penetrating into the leaf.

INJURY. The midge attacks all parts of the plant but prefers the tender growth. If the infestation takes place when the plants are small, they fail to grow, although if the plants are well-developed when the infestation starts, the buds blight or are deformed, and the plant is rendered unsalable.

CONTROL. **Lindane** is effective against young and adults.

Parathion aerosols effective, but require frequent applications.

DDT effective against adults—repeated applications necessary.



Aphids



Midge Injury

Insects and Their Control

Corn Ear Worm

The corn ear worm is a green to brown, nearly smooth caterpillar often mistaken for a cutworm when found within the buds or on the open flowers.

INJURY. It is very destructive to the opening buds, for it feeds on their petals and other parts, deforming if not entirely ruining the flowers.

CONTROL. If the attacked plants are blooming, spraying is out of the question, but thorough treatment with a 3 or 5% D.D.T. dust is recommended. After they have worked their way into the buds and are found to be feeding on the open flowers, hand-picking is the only remedy. Spraying the plants with **Deenate 50W** will control them before the color shows. **Parathion** fumigation will also keep them under control.

Cutworms

The larva is dull colored and from one to more than 2 inches in length. They are most active at night, and usually spend the day coiled up just under the surface of the soil at the base of the plant. They should not be confused with the corn ear worm, which cannot be controlled by poison baits.

INJURY. Cut worms obtain their food by biting out sections of the leaf, stem or bud. Various species attack different parts of the plant. The one that is most damaging climbs to the top of the stem and eats into the flower buds.

CONTROL. Those cutworms that feed on the foliage can best be controlled with **Deenate 50W** spray using 1 1/2 pounds to 100 gallons of water. **Parathion**

has been suggested as a good control measure and is more effective as a spray.

Greenhouse Leaf Tyer

It gets its name from its habit of spinning light webs inclosing 2 or more leaves or tying together the parts of a single leaf. This caterpillar is very active, and when disturbed, will wriggle off the leaf, often backwards, lowering itself on a silk-like strand.

INJURY. When first hatched, the larvae eat out shallow holes on the under side of the leaf. As they grow, they enlarge these holes but usually do not cut through to the upper surface. The result is that the leaves become skeletonized.

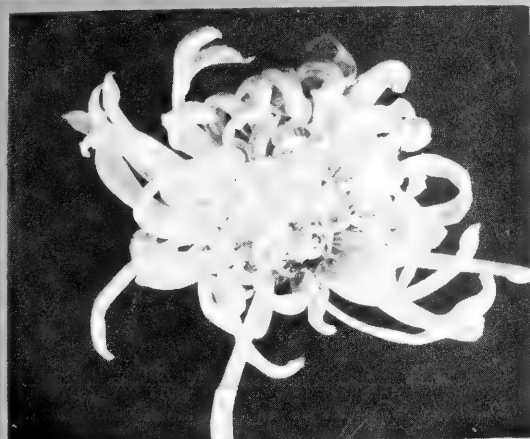
CONTROL. The best poison to control the larvae is **Deenate 50W**, either in the form of a dust or a spray. For liquid spray use 1 1/2 pounds of **Deenate 50W** to 100 gallons of water. Regular fumigations with **Parathion** will keep the leaf tyer under control. The leaf roller is best controlled with **Parathion** or **TDE (Rhothane)** is closely related to DDT and it is used at the rate of 2 pounds of 50% wettable powder to 100 gallons of water.

Mealy Bugs

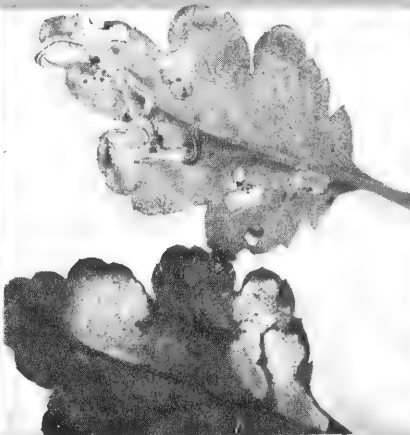
Mealy bugs are small, sluggish, whitish, soft bodied insects, measuring up to one-quarter inch long, found in clusters on the undersides of the leaves or in the leaf axils.

INJURY. This pest sucks the juices from the stems and leaves, discoloring and deforming the foliage.

CONTROL. **Parathion** or **Dithio** are the most effective. Repeated applications necessary.



Corn Ear Worm Damage



Leaf Tyer



Mealy Bugs

Insects and Their Control

Mites

Cyclamen mite and broad mite are often found on the same plants at the same time. Broad mite could pass through a complete generation in 4 to 5 days at 70 to 80 degrees, while the cyclamen mite will take 4 to 5 times longer.

INJURY. Infested leaves become deformed, curl from the outside inward, and wrinkle so that pockets and pit-like depressions are formed. When the infestation is severe, the mites collect about the buds, causing them to blight. Oftentimes white varieties will show occasional red petals.

CONTROL. Parathion dusts or sprays are more effective than bombs. **Vapotone** containing **HETP** has given good control. **Sodium Selenate** is effective when applied in liquid form one-quarter gram per sq. ft. after plants are well established. **P40** used at the rate of 3 pounds per 100 sq. ft. is another way to use Sodium Selenate. **Systox** used as a soil drench has been found effective in mite control.

Red Spiders

There are several species of red spiders that attack the chrysanthemum. They vary in color through yellow, orange and red. The body is oval in outline and bears 8 well-developed legs.

INJURY. Red spiders pierce the epidermis of the leaf and draw the liquid contents from the cells, causing the leaf to turn pale around the injured portion. They prefer to collect on the under surfaces of the leaves, which they cover with silken threads.

CONTROL. Parathion or **TEPP** bombs are most effective and easiest to apply. **HEPT** or **TEPP** contained in insecticides such as **Vapatone** are by far the most effective on red spider. Moisture is detrimental to the development of the red spider, and frequent syringing washes them and their eggs off the plants. **Sodium Selenate** is effective when applied in liquid

form one-quarter gram per sq. ft. or **P40** at 3 pounds per 100 sq. ft. after plants are well established; especially desirable for cloth house operators, will also control foliar nematodes. **Systox** emulsion used as a soil drench has also been found effective in mite and aphid control on outdoor plantings. **Plantume 103** smoke generators and **Fulex Parathion Fumigators** are simple to use and very effective. The latest control is **ARAMITE 15-W**. **Dithio** is much safer than other insecticides when used on open flowers.

Symphylids

Symphylids are small white creatures about one-eighth to three-sixteenth inches long. About 40-60 days are necessary for the completion of the life cycle.

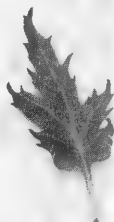
INJURY. Symphylids destroy the fine root hairs and small rootlets, thus stunting the plants and often killing them outright.

CONTROL. Complete control can be obtained with **Lindane** applied to the soil. **Lindane** can be applied to the surface of the soil either as a dust or as a wettable powder in a convenient amount of water. Application can be made when plants are in the bed, but best results are obtained if the insecticide is worked into the soil prior to planting. Use **Lindane 25W** at the rate of 6 ounces per 1000 sq. ft. or 1% **Lindane** dust at the rate of 10 pounds per 1000 sq. ft.

Sowbugs

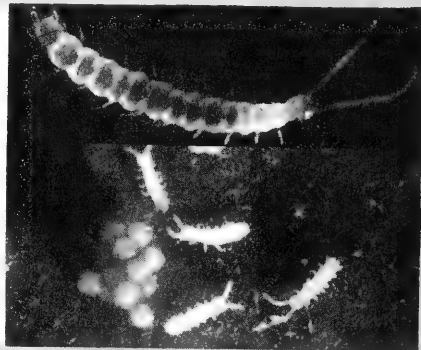
INJURY. Sowbugs often become so plentiful in the greenhouse that they eat the newly-planted cuttings at the base.

CONTROL. Any of the many poison baits will give partial control, but a complete spraying with **DDT** under the benches has given excellent control. **Deenate 50W** will give complete control.



Mite Injury

Red Spider Injury



Symphylid. Above, adult — below, eggs and young

Insects and Their Control

Tarnished Plant Bugs

The tarnished plant bug or sting fly comes into the greenhouse through open doors and ventilators in late summer or early fall and does considerable harm to this crop. Chrysanthemums growing in the open are frequently affected. Varieties such as Mary L. Hall and Sea Gull are attacked to a greater extent than other varieties.

INJURY. It has sucking mouth parts and obtains its food by inserting its long, slender beak into the plant tissues and sucking up the contents of the injured cells, apparently injecting saliva, which causes the death of the tissue in the immediate vicinity. The stem is often slightly bent, and the terminal growth is malformed because of this injection.

CONTROL. Early morning spraying or dusting with any of the pyrethrum materials will kill those bugs that are present but this will have to be done each day for complete eradication. **Deenate 50W** has been giving fair control, but again this insecticide is best used as a contact. **Parathion** fumigation will control this insect in the greenhouse.

Termites

Termites are not ants, though often called white ants. The food of termites is wood or cellulose. Soil inhabiting forms are the most common in the greenhouse.

INJURY. Termites sometimes injure chrysanthemum plants by working up the center of the plant and

hollowing out the stem. This injury will eventually kill the plant.

CONTROL. Clean up all wood debris in soil. Replace old wooden benches. Keep wooden bench supports from direct contact with the ground.

Thrips

The chrysanthemum is usually attacked by one or more species of thrips. These small, narrow-bodied, active insects which range in color from yellow to brown or almost black, injure both the leaves and the blossoms. Thrips are a real threat to Florida mum growers.

INJURY. Thrips have mouth parts that are fitted for piercing and scraping the leaf surface and for sucking the juices and other cell contents. The upper surface of the foliage is covered with whitish blotches, while minute black specks appear on the lower surface. Unless a constant watch is kept on the plants and control measures are properly executed, thrips are capable of causing severe injury within a short time.

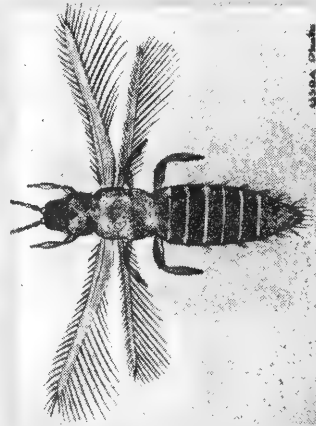
CONTROL. **Deenate 50W** used at the rate of 1 pound to 100 gallons of water is a very effective control. Other insecticides containing **Lindane** are also recommended. **Parathion** will control the chrysanthemum and onion thrips. Regular dustings or spraying are necessary where infestation is heavy. **Chlordane** is also very effective.



Tarnished Plant Bug



Thrip Injury



Adult Onion Thrip

Pests and Their Control

Foliar Nematode

The spread of this pest has been very rapid in recent years owing to the increased trade in chrysanthemums and the ease with which the nematode is transported in plants and cuttings. Too few growers have become familiar with this pest, and consequently no effort has been put forth to control it.

SYMPTOMS. The leaves attacked become blotched, turn at first greenish-yellow, then brownish, later gray and finally black until the entire leaf dies and hangs down on the stem. Under conditions of high

humidity both in the open during a wet season and under glass due to excessive watering, the spread of the pest may be extremely rapid.

CONTROL. P40 applied at the rate of 3 pounds per 100 sq. ft. has given good control. Wait 2 to 4 weeks after benching before applying. It is better to apply P40 in 2 applications, 1½ pounds each time, 7 to 10 days apart. The latest findings show that foliar nematodes can be controlled with **Parathion** either as an aerosol or liquid spray. **Systox** emulsion applied as soil drench 2-4 weeks after planting is effective.

Diseases and Their Control

Bacterial Stem Rot

SYMPTOMS. Cuttings may appear healthy although infected, grow well up to 8-12 inches high when the stem becomes soft and off-colored. Pith is jelly-like or lacking in such stems. Tops of plants then turn black, exude drops of liquid, and the stem often splits. Develops at high temperatures (75-90 degrees). Often shows up after the plants are pinched.

CONTROL. Remove and burn immediately all affected plants. Wash hands thoroughly after handling plants. Steam infested soil before replanting. Avoid dips for cuttings.

Collar Rot or Stem Rot

SYMPTOMS. The area of stem just at the soil level will show dark colorings first. The entire stem will be girdled, and eventually the plant will turn yellow and die. Usually caused by the common damping-off organisms such as *Rhizoctonia*, *Fusarium* or

Pythium. More prevalent when temperature and humidity are high.

CONTROL. Do not plant cuttings that have been affected with damping-off. Remove all affected plants when noticed. Do not keep the soil too moist. Run a lower humidity if possible. Plant cuttings no deeper than depth they were in propagating media, as too deep planting will hasten development. Have soil well prepared, as compact soils will also encourage trouble.

Mildew

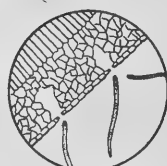
SYMPTOMS. Whitish powdery growth on upper surface of leaves.

CONTROL. Spray at regular weekly intervals with a good **Wetttable Sulfur**, 1½ pounds per 100 gallons of water to which a good commercial spreader has been added. Spray with **Iscothan** 4 ounces per 100 gallons of water plus spreader whenever disease appears.

BIOLOGY OF THE FOLIAR NEMATODE



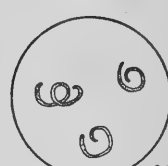
Eelworms moving from the ground up the outside of the stem and leaf-stalks into the basal leaves. (Spring)



Eelworms entering leaf through the stomata. (Spring-Summer)



Eelworms feeding and breeding in leaves and migrating upwards from leaf to leaf (Spring-Autumn)



Eelworms overwintering in soil, dead leaves and in basal buds. (Winter)



Diseases and Their Control

Ray Blight or Flower Spot

SYMPTOMS. The petals first show little spots and then the entire petal begins to rot. May be caused by Botrytis or Ascochyta. Botrytis is spread primarily by splashed water.

CONTROL. It is controlled by lowering humidity or spraying plants with **Parzate** when they show color. Spray with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** on the flower from below and above as soon as color shows and continue at 5-day intervals. **Orthocide 50W** one ounce to 4 gallons of water plus spreader used as a spray similar to Parzate was found a good control. An electric fan, placed above the plants will circulate the air sufficiently to reduce disease.

Root Knot Nematode

SYMPTOMS. The nematodes or eelworms bore into the roots of the plants and cause knots or galls to develop on the root systems. As a result the plants are weak, yellowish and stunted in growth.

CONTROL. Steam sterilization of the soil is very effective in eliminating the nematodes. **Dowfume G** is a good soil fumigation that will kill nematodes and not do any damage to the surrounding plants.

Rust

SYMPTOMS. Chocolate brown powdery pustules on lower surface of the leaves.

CONTROL. **Parzate**, one ounce to 4 gallons of water is most effective.

Septoria Leaf Spot or Leaf Blight

SYMPTOMS. Distinct circular spot on the leaves. These are greyish-brown in color and become brittle in the center. Affected leaves may turn yellow and die. More prevalent in the open. Some varieties are more susceptible than others. Sea Gull is very susceptible.

CONTROL. When cuttings are received, dunk the tops into **Fermate** (2 tablespoonfuls to a gallon). Spray the plants with **Parzate** one ounce to 4 gallons of water plus one-third teaspoonful of **Du Pont Spreader Sticker** every 10 to 14 days. Cloth house mums should be kept covered until the buds can be seen.

Verticillium Wilt or Seidewitz disease

SYMPTOMS. Margins of leaves turn yellow and eventually wilt or dry up. This begins at base of plant and works up the stem. May affect one side of a stem or plant more than the other. No distinct spots. Varieties vary in resistance to this disease.

CONTROL. Verticillium wilt can be avoided by purchasing our disease-free cuttings produced from **cultured stock**. It is also necessary to plant only into sterilized soil.



Dodder Growing on Mums



Septoria Leaf Spot

Pests and Their Control

Viruses

The word "virus" is being referred to by the medical profession as well as by the florists, and a short explanation of virus should prove of interest.

Viruses of the chrysanthemum are considered to be infectious; that is they can be transmitted to a healthy plant only by contact with an infected plant. They are not carried in the soil, water or air as are other diseases caused by fungi and bacteria.

The virus particles cannot be seen by the most powerful microscopes. Most of them will pass through bacterial filters. They respond like living organisms. They are always present in the sap of diseased plants and can be transmitted to a healthy plant through wounds or by mechanical means. The chrysanthemum is known to be affected with 5 viruses, namely yellows, Aspermy, rosette, mosaic and stunt. Stunt is the only one that has caused much concern. It has been found that aphids as well as mechanical handling will cause stunt to spread.

Once a plant is infected with a virus, it usually always remains affected. To define a virus, the following is as good as any: A virus is a protein which requires the presence of living cells for multiplication and it causes changes in the structure and functions of living cells.

Combination Sprays

At times it is more economical and convenient to mix two or more sprays and apply them in one operation. Before such mixtures are prepared, the grower should be sure no reaction harmful to the plants will occur, and that the efficiency of the separate ingredients is not reduced. Consult your State Entomologist or Plant Pathologist for information on combination sprays for specific crops.

A good combination spray for chrysanthemums which will control most diseases and insect pests, can be made with Parzate, DDT and Vapotone. Details on dilutions are as follows:

Material		Amount to Make	
Water	100 gallons	20 gallons	3 gallons
DuPont Spreader Sticker	6 oz.	2 tablesp.	1 teasp.
Parzate	1½ lbs.	5 ounces	2 tablesp.
Deenate 50W	1 lb.	¼ lb.	1½ tablesp.
*Vapotone	½ pt.	3½ tablesp.	1½ teasp.

To prepare: (1) Measure out spreader and dilute in small amount of water. (2) Fill tank with required water and add the diluted spreader and stir. (3) Take out a small amount in jar, add the proper amount of the Parzate and shake vigorously until all the powder is thoroughly wetted. (4) Pour this mixture back into the tank, preferably through a fine screen or cheese-cloth and stir. (5) Measure out Vapatone and dilute in small amount of water and add to the tank. Keep stirring or keep agitator running while adding the materials.

Dodder

SYMPTOMS. Dodder is a parasitic twiner, bearing clusters of small flowers. They are leafless annuals, with very slender yellow, white or red stems, which become attached to the plant by means of root-like suckers. Dodder is occasionally found on chrysanthemums and will cause a complete loss of crop.

*Parathion, 15% wettable powder may be substituted for Vapatone and used at the same rate as Parzate, 1½ pounds per 100 gallons; 5 ounces per 20 gallons and 2 tablespoonsful per 3 gallons.

CONTROL. Dodder is common in low, weedy places and may be carried into the greenhouse in the soil or manure. Soil sterilization is the only prevention. After dodder is attached to the plants, remove the affected plants and burn.



California Cloth House

CHRYSANTHEMUM MANUAL

Gloekner

CHRYSANTHEMUM VARIETY DESCRIPTIONS VARIETIES OF RECENT INTRODUCTION

6-WEEK VARIETIES

OSTOSA

Sept. 25

An intermediate paper white pompon on a semi-dwarf plant. Very free flowering and early. One of the best whites for May and June pots. (P-1)

ORLOMA

Sept. 25

Apricot-red decorative. Strong compact plant. Suitable for spring pot plants. (P-1)

ORSONA

Sept. 25

A red-bronze decorative with a bushy growth habit. A variety for garden and pot plant culture. (P-1)

7-WEEK VARIETIES

LIMELIGHT

Oct. 5

Intermediate creamy white solid pompon. Very productive early outdoor cut flower variety. (P-1)

BUCKEYE

Oct. 8

Intermediate salmon-bronze pompon. Dwarf, compact, very sturdy growth. Striking new color well suited to the garden and Mother's Day pot plant program. (P-2)

8-WEEK VARIETIES

CALUMET

Oct. 15

A rawhide-bronze pompon similar in color to Mrs. DuPont but of superior flower quality for cut flower purposes. Very fine for the spring crop in the greenhouse, the earliest cloth house crop and the garden. (P-1)

MOONDRIFT

Oct. 20

Intermediate cream yellow single. Excellent growth and production. Recommended for Apr. 15 to June 15 and Sept. 15 to Oct. 20 flowering. Suggested for late cloth house. (P-3)

TALISMAN

Oct. 20

Talisman bronze; intermediate daisy. Color holds exceptionally well. Recommended April thru October in the greenhouse, and Aug. and Sept. in the cloth house. (P-2)

PARADISE

Oct. 20

Int. coral red single. Color holds well. Recommended April thru mid-June in the greenhouse, mid-Aug. thru Oct. in the cloth house. (P-2)

PALLETTE

Oct. 20

Intermediate dark salmon single. Heavy petallage with good substance. Fine in spring and fall. (P-2)

MAYFAIR

Oct. 15

Intermediate, smooth pink single. Growth and production surpasses that of Reward. Valuable for cut April thru Oct. in the greenhouse, and July thru Oct. in the cloth house. (P-3)

JESTER

Oct. 15

Intermediate, dark, orchid-pink single. Very early variety with free, vigorous growth. (P-2)

MIRTH

Oct. 20

Intermediate light pink single. Larger than Reward. Especially valuable in spring, flowering April thru June. Durable and uniform response in July thru Oct. in the cloth house. (P-2)

9-WEEK VARIETIES

SILVER QUEEN

Oct. 25

White Fuji mum. Better stem than Rayonnante. Important in the spring and fall program. (P-1)

VESTA

Oct. 25

A trim white button pompon for summer and early fall flowering. Best during the long day period of the year June thru Aug. (P-1)

SILVER CLOUD

Nov. 1

Int. white single. Heavily petalled, better form than Halo. A good producer. Recommended April thru Oct. with use restricted to the greenhouse. (P-2)

CREAM HALO

Nov. 1

Excellent cream colored sport of Halo with the same recommended season of flowering as Halo. (P-1)

LUYONA

Oct. 25

Large yellow spider mum with quality blooms. (P-1)

GOLDFINCH

Oct. 25

Small golden yellow button pompon with excellent flower quality. Withstands high temperature well. An outstanding competitor of the variety Sunup for spring, summer and fall flowering. (P-0)

ORDALIA

Oct. 25

Deep golden yellow, semi-incurved decorative. Size 3'-3½". Excellent keeper. Very vigorous and bush growth. Blooms in the garden in Oct. A large pot plant disbud. (P-2)

STARLIGHT

Oct. 25

Large yellow daisy. Recommended April thru Oct. in the greenhouse. Natural or dis-spray. Makes a fine disbud in pots spring and fall. (P-3)

AZTEC

Oct. 28

Intermediate deep yellow daisy. Strong wiry growth and heavy production. Especially valuable for high temperature flowering. Recommended May through Oct. in the greenhouse and Aug. and Sept. in the cloth house. (P-3)

SUNUP

Oct. 28

Small deep yellow pompon. A little smaller than Gold Coast and larger than Pixie. Harder and more durable than Gold Coast. A good producer which withstands high temperatures and heavy cropping better than Gold Coast. Recommended June through Sept. Sharp uniform response. (S-2)

SAUTERNE

Oct. 30

Int. intense yellow single. Very uniform response tolerating a wide temperature range. Improves the production, petalage and quality of Yellow Halo and other existing yellow daisy varieties. Recommended May through Oct. in the greenhouse, Aug. through Oct. in the cloth house. (P-3)

GONDOLA

Oct. 30

Int. yellow daisy. Quite large flower similar to Starbright. Recommended May through Oct. in the greenhouse and in the cloth house. (P-2)

HONEYMOON

Nov. 4

Large yellow daisy. Good form and an unusually clear yellow color. Recommended May and June in the greenhouse, and Aug. and Sept. in the cloth house. (P-2)

(Continued)

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

CHRYSANTHEMUM VARIETY DESCRIPTIONS VARIETIES OF RECENT INTRODUCTION

9-WEEK VARIETIES—(Continued)

GAITY

Oct. 25

Intermediate coral-bronze single. This variety in combination with Paradise and Prelude constitute a trio bred to widen color range adding new and lively pastels especially valuable in the spring and fall. (P-2)

ANTIQUÉ

Nov. 1

A bronze spider mum for cut flower and pot plant use. (P-1)

PINKETTE

Oct. 25

Intermediate pink pompon. For May and June, and again in Sept. and Oct. in the greenhouse; also, Aug. thru Oct. in the cloth house. (P-3)

BLUECHIP

Nov. 1

Intermediate pink decorative. Recommended May and June in the greenhouse, and Aug. thru Oct. in the cloth house. (S-1)

FREEDOM

Nov. 5

Intermediate pure white single. Outstanding for spray formation and flower substance. Recommended for Aug. and Sept. cloth house, and Aug. through Nov. in the greenhouse. (P-3)

WHITETOP

Nov. 5

Intermediate pure white decorative. Vigorous growth habit. Recommended April through Nov. in the greenhouse, and Aug. through Oct. in the cloth house. It fills the need for a pure white pompon in the greenhouse during the spring months when Encore is difficult to flower. (S-2)

MADONNA

Nov. 5

Intermediate white pompon of good clean growth. Its place is in the spring program in May to July where it takes high temperature well. (S-2)

PACESETTER

Nov. 10

Intermediate pure white single. Good form, petallage and substance. Excellent shipping quality. Excellent for spring, summer and fall. A very fine pot plant disbud. (P-3)

ILLINI IGLOO

Nov. 10

Intermediate white pompon with creamy center; exceptional substance, very productive, good for outdoor shading. (S-2)

CREAM SHASTA

Nov. 10

Beautiful color addition to the Shasta group for year round flowering. (P-1)

WHITE MEMORIAL

Nov. 12

Pure white sport except when grown cold. Fine May to Nov. (P-1)

JETFIRE

Nov. 5

Intermediate flaming red decorative. A color that holds even in high temperatures. Well adapted for spring and fall pot plants grown either as spray or disbud. Outstanding in the cloth house. (P-1)

ORANGE BEAUREGARD

Nov. 5

Lively, light orange or golden bronze sport from Beauregard. Valuable in a continuous year-around program. In the early cloth house or under high temperature conditions, it is a deep golden yellow pompon. (S-1)

FIREGLEAM

Nov. 10

A fiery orange intermediate decorative. An outstandingly brilliant color that holds beautifully. Is fine in pots with partial or no disbudding. (P-1)

VOGUE

Oct. 25

Large pink single. Beautiful form and substance. Especially valuable June and July. Good in Aug. to Sept. in cloth house. (P-2)

REWARD

Oct. 25

A very productive deep pink single that holds color in July and Aug. Easily the outstanding early pink daisy for June 15 to Sept. 15 flowering. (S-3)

TEMPO

Nov. 3

Intermediate deep pink decorative. A 9-week Masterpiece. Recommended April thru June in the greenhouse, and Aug. and Sept. in the cloth house. (P-2)

10-WEEK VARIETIES

BRONZE PANDORA

Nov. 10

Bright coral bronze sport of Pandora. (P-1)

BARBARA FULLER

Nov. 10

A dark coral red anemone. Dwarf compact growth habit. Excellent for flowering as a pot plant in Oct., Nov. and Dec. (P-1)

DELAWARE

Nov. 8

A large semi-incurred reddish bronze standard. An outstanding pot plant for fall, winter and spring. The growth habit and the color make this the number one bronze pot mum. (P-1)

ILLINI REGAL

Nov. 12

A crimson pompon. An improvement over Illini Redhead. (P-1)

PARISIENNE

Nov. 5

Intermediate shell pink single. This variety grows and flowers satisfactorily at all seasons where Shasta is satisfactory (late March to Nov.). The color is as close to true pink as exists in the chrysanthemum. The favorite pink single to rotate with Brocade and a color far better than that of Reward. (P-1)

CRITERION

Nov. 8

Int. pink decorative with a vigorous, compact growth habit. A new and valuable year round pink pot plant variety. Almost the equal of Bonnaffon Deluxe in pink. Also a fine cut flower variety for spring and fall. Best grown disbudded. (P-1)

PORTRAIT

Nov. 8

Large pink pompon. A versatile variety that can be grown anytime 10-week varieties are used. Also responds well to partial disbudding. Tolerates a lower minimum temperature than Pandora. Excellent pot plant, March thru Dec. (S-2)

PENNANT

Nov. 10

Intermediate pink decorative. Recommended April thru Oct. in the greenhouse, and Aug. thru Oct. in the cloth house. (P-3)

NOBILITY

Nov. 10

Intermediate light pink single. A quality daisy. Recommended May, June, Oct. and Nov. in the greenhouse, and Aug. thru Oct. in the cloth house. (P-2)

HUMDINGER

Nov. 10

An intermediate to large formal pompon. Color has been described as a luminous violet purple. A perfectly ideal pot plant type of growth habit. An interesting disbud pot plant for fall, winter and early spring. (P-1)

(Continued)

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES

CHRYSANTHEMUM MANUAL



CHRYSANTHEMUM VARIETY DESCRIPTIONS VARIETIES OF RECENT INTRODUCTION

11-WEEK VARIETIES

WHITE TAFFETA

Nov. 15

Pure white sport of Taffeta. (P-1)

ILLINI STARFLOWER

Nov. 18

Semi-anemone form. A novelty in white for the retail growers. (P-1)

BELRAY

Nov. 24

Large white pompon. Tall grower. One of the best large whites for March and April flowering in the greenhouse and late Sept. and Oct. in the cloth house. (S-3)

YELLOW SCULPTURE

Nov. 15

Lemon yellow sport of Sculpture, as valuable in the year-round program as Sculpture itself. (P-1)

LOLLIPOP

Nov. 20

A lemon yellow pompon. Very formal, round and hard. Has a long season of usefulness. Fast response, and good production. A very reliable 11-week variety. (S-3)

PIPPIN

Nov. 20

Intermediate yellow pompon. Variety produces heavily on compound sprays. Shades well and lights well. Very dependable. (S-2)

KLONDIKE

Nov. 20

An orange yellow pompon. Outstanding in March and April, also in late Sept. and Oct. in the cloth house and Nov. in the greenhouse. A slightly short but very uniform growth habit. (S-3)

MINGO CHIEF

Nov. 20

Intermediate yellow anemone best described as a yellow Yolanda but with a stronger growth habit and heavier production. (P-1)

MRS. EISENHOWER

Nov. 18

A vivid golden bronze spider mum with excellent substance and form. Vigorous grower. (P-1)

THELMA

Nov. 20

Very brilliant orange-scarlet pompon. Excellent Sept. 15 to Christmas. A beautiful red that never loses its brilliance. A sensation in the late cloth house. (S-2)

RUBAIYAT

Nov. 20

Velvety red intermediate formal pompon. Unequaled for Oct. thru Christmas flowering. Improves Christmas Greeting in color; form; and production. (P-1)

ILLINI SPRINGTIME

Nov. 15

Intermediate pink single. (P-1)

DK. BRONZE MINUET

Nov. 23

A rich deep salmon bronze sport of Bronze Minuet. (P-1)

ALMEGA

Nov. 20

Large light lavender pink pompon. Form, color and substance excellent. Average production, vigorous but tall growth. (S-2)

DARK PINK MINUET

Nov. 23

A deep pink sport of Minuet. (P-1)

12-WEEK VARIETIES

SILVERCREST

Nov. 25

Small white formal pompon. Markedly improves the appearance and quality of Snowcrest. Well adapted for flowering Nov. thru March. (P-1)

ILLINI PEACE

Nov. 25

A productive white anemone for Thanksgiving. (P-1)

ILLINI WAMPUM

Nov. 25

Beautiful, bright yellow anemone with greenish yellow cushion. Very satisfactory growth and production and a good addition to the winter flowering program. (P-1)

GOLD MEDAL

Dec. 1

Small yellow button pompon for Oct. to April flowering. (P-1)

YELLOW GALAXY

Dec. 1

Sport of Galaxy. Deep lemon yellow intermediate single possessing the wide flat petal so attractive in its parent. Useful from Oct. 15 thru the full winter program. (S-1)

RED HERITAGE

Dec. 1

Salmon red sport from Heritage. (P-1)

ORANGE GALAXY

Dec. 1

A color sport from Galaxy. Color very nearly that of Orange Beauregard. (P-1)

HERITAGE

Dec. 1

Large formal dark pink pompon. Improves the production of Minuet and responds more uniformly than Riviera or Minstrel. (S-2)

(Continued)

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

CHRYSANTHEMUM VARIETY DESCRIPTIONS VARIETIES OF RECENT INTRODUCTION

13-WEEK VARIETIES

ACCLAIM

Dec. 5

Large formal type pompon. Clean Omega type growth, no laterals. Lights and shades well. As fine a formal pompon as exists. A white Corsair. (S-2)

ORWAY

Dec. 8

Large white single. An improvement over Yukon in flower quality and growth habit. (P-1)

SNOWFLAKE

Dec. 10

Intermediate clear white pompon. (P-1)

SMITH'S CREAM WHITE

Dec. 13

A beautiful smooth cream colored sport from Smith's White. Excellent form and good depth of flower. (P-1)

YELLOW ACCLAIM

Dec. 5

Good yel. sport from Acclaim. (P-3)

GOLDIE

Dec. 10

Deep yellow small pompon. Preferred by some over Yellow Snowcrest. (P-1)

CORSAIR

Dec. 12

Large yellow pompon. Outstanding for quality, vigor and production. A "best" for Oct. 15 to March 15 in yellow pompons. (S-2)

RED MINSTREL

Dec. 13

A sport from Br. Minstrel with a lively red glow added. This color is easier to use than that of Br. Minstrel. A quality pompon for Nov. and Dec. (P-1)

IMP. PK. MINSTREL

Dec. 13

From a designer's and retailer's standpoint, this is the best of the Minstrels. Its color resembles that of Pink Dot and it does not deteriorate rapidly with maturity. The shade and tone are both right. Minstrel has form and substance; Imp. Pk. Minstrel has form, substance and color. (P-1)

14-WEEK VARIETIES

SNOWCAP

Dec. 15

Large formal pompon. When grown at a 60° F. minimum night temperature, this is one of the outstanding flowers available during Dec., Jan. and Feb. (S-3)

WEDDING BELLS

Dec. 20

A small to medium white formal pompon. Purer white than Snowcrest. (P-1)

SUNRISE

Dec. 20

A yellow pompon best described as a late Gold Coast. Sunrise is not sensitive to low night temperatures. A better growth habit than either Yellow Snow or Golden Anniversary. (S-2)

LYNDA McLANE

Dec. 25

A late pink pompon with a growth habit that does not run into blind growth and a color that is highly acceptable. A much needed variety for the late natural crop. (P-1)

PRICES PER 100

Price Classification	50-250	300-450	500-950	1000-2450	2500 Up
S-4	6.00	5.70	5.40	5.10	4.80
S-3	6.50	6.15	5.85	5.50	5.20
S-2	7.00	6.65	6.30	5.95	5.60
S-1	7.50	7.15	6.75	6.40	6.00
P-3	8.00	7.60	7.20	6.80	6.40
P-2	9.00	8.55	8.10	7.65	7.20
P-1	10.00	9.50	9.00	8.50	8.00
P-0	15.00	14.25	13.50	12.75	12.00

This price table is effective until September 1, 1955

COLLECTIONS

When varieties are not specified, orders may be placed for any general grouping of varieties available at time of shipment. These orders must be in full 300 box units.

1 Box (300 R.C.).....	\$ 17.10	6 Boxes (1800 R.C.).....	\$ 91.80
2 Boxes (600 R.C.).....	32.40	7 Boxes (2100 R.C.)	107.10
3 Boxes (900 R.C.).....	48.60	8 Boxes (2400 R.C.)	122.40
4 Boxes (1200 R.C.).....	61.20	9 Boxes (2700 R.C.).....	129.60
5 Boxes (1500 R.C.).....	76.50	10 Boxes (3000 R.C.).....	144.00

CHRYSANTHEMUM MANUAL



WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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6-WEEK VARIETIES

Ostosa (G)	July 4	Sept. 25	Int. Pompon	P-1
Sept. Morn (G)		Oct. 1	Int. Single	S-1
White Wonder		Oct. 1	Int. Pompon	S-1
Chris. Columbus (G)		Oct. 1	Int. Decorative	S-3

7-WEEK VARIETIES

Limelight	July 4	Oct. 5	Int. Pompon	P-1
Avalanche (G)		Oct. 5	Snow White Decorative	S-1
White Cloud (G)		Oct. 5	Large Decorative	S-1
Horizon		Oct. 5	Pure White; Int. Pompon	S-2
Marshmallow		Oct. 5	Int. Single	P-2
Maestro (G)		Oct. 10	Int. Pompon	S-1
Renown (G)		Oct. 10	Small Single	S-1
Classic		Oct. 10	Small Semi-Formal Pompon	S-2
Silverplate		Oct. 12	Int. Decorative	S-2

8-WEEK VARIETIES

Calif. White Daisy	July 11	Oct. 15	Int. Single	S-2
(Kimoto's White)				
Irene		Oct. 15	Small Pompon	S-2
Norona		Oct. 15	Small Pompon	S-2
Cream Puff		Oct. 20	Int. Single	P-2
Pristine		Oct. 20	Pure White; Int. Pompon	S-3
Minong		Oct. 20	Small Pompon	S-1
Silverfone		Oct. 24	Int. Single	P-2

9-WEEK VARIETIES

Popcorn	July 18	Oct. 25	Int. Pompon	S-3
White Popcorn		Oct. 25	Cream White Sport of Popcorn	S-2
Keepsake		Oct. 25	Cream White; Int. Pompon	S-2
Pinocchio		Oct. 25	Small Pompon	S-3
Songster		Oct. 25	Int. Pompon	S-3
Cottontop		Oct. 25	Small Pompon	S-1
Shooting Star		Oct. 25	Int. Single	S-1
Vesta		Oct. 25	Small Pompon	P-1
Arcadia		Oct. 28	Int. Pompon	S-2
Silver Cloud		Nov. 1	Int. Single	P-2
Halo		Nov. 1	Ivory White; Int. Single	S-3
Cream Halo		Nov. 1	Cream; Int. Single	P-1
Sea Gull		Nov. 1	Ivory White; Int. Pompon	S-3
*White Doty		Nov. 1	Large Pompon	S-3

10-WEEK VARIETIES

Freedom	July 25	Nov. 5	Int. Single	P-3
Whitetop		Nov. 5	Int. Decorative	S-2
Madonna		Nov. 5	Int. Pompon	S-2
Kolowa		Nov. 5	Int. Single	S-1
Encore		Nov. 5	Pure White; Int. Pompon	S-4
*White Anemone		Nov. 5	Large Anemone	S-2
White Mensa		Nov. 5	Large Single	S-2

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification	
10-WEEK VARIETIES—Cont'd					
Rev. Bushnell.....	July 25	Nov. 8	Int. Formal Pompon	S-2	
Moonglow.....		Nov. 8	Int. Pompon	S-2	
Pacesetter.....		Nov. 10	Int. Single	P-3	
Illini Igloo.....		Nov. 10	Int. Pompon	S-2	
*Shasta.....		Nov. 10	Int. Anemone	S-4	
*Cream Shasta.....		Nov. 10	Int. Anemone	P-1	
Dynamo.....		Nov. 10	Int. Pompon	S-2	
Vesper.....		Nov. 10	Int. Pompon	S-2	
Nagona.....		Nov. 10	Int. Single	S-1	
(Calif. White Mensa)					
*Little America.....		Nov. 10	Pure White; Int. Anemone	S-3	
Illini Snowdrift.....		Nov. 12	Novelty — Int. Decorative	S-3	
Matchless.....	Nov. 12	Int. Pompon	S-2		
White Memorial.....	Nov. 12	Int. Anemone	P-1		
11-WEEK VARIETIES					
White Taffeta.....	Aug. 1	Nov. 15	White Sport Taffeta	P-1	
Sculpture.....		Nov. 15	Ivory White — L. Single	S-2	
*White Norma.....		Nov. 15	Sport of Norma	S-2	
Eskimo.....		Nov. 15	Int. Single	S-1	
Snowflurry.....		Nov. 15	Small Pompon	S-2	
Illini Starflower.....		Nov. 18	Semi-Anemone	P-1	
Seafoam.....		Nov. 20	Int. Pompon	S-2	
*L. I. Beauty.....		Nov. 20	Yellow Cushion; L. Anemone	S-3	
Highbrow.....		Nov. 20	Ivory White; Int. Dec.	S-3	
Nevada.....		Nov. 20	Green Cushion; Int. Anemone	S-2	
*Priscilla.....		Nov. 20	Int. Pompon	S-3	
Illini Bountiful.....		Nov. 23	Int. Decorative	S-1	
Crystal Beauty.....	Nov. 23	Int. Pompon	S-2		
Paramount.....	Nov. 23	Int. Pompon	S-3		
*Belray.....	Nov. 24	Large Pompon	S-3		
12-WEEK VARIETIES					
Silvercrest.....	Aug. 8	Nov. 25	Small Formal Pompon	P-1	
*White Lady.....		Nov. 25	Sport of Beautiful Lady	S-1	
Illini Peace.....		Nov. 25	Lady Anemone	P-1	
*White Valencia.....		Nov. 28	Sport of Valencia	S-3	
Cordova.....		Nov. 30	Cream White; Int. Dec.	S-2	
Fortune.....		Dec. 1	Int. Formal Pompon	S-3	
Monarch.....		Dec. 1	Ivory White; L. Decorative	S-1	
Carrara.....		Dec. 3	Int. Decorative	S-1	
13-WEEK VARIETIES					
Cameo.....	Aug. 15	Dec. 5	Ivory White; Int. Dec.	S-3	
Acclaim.....		Dec. 5	Large Formal Pompon	S-2	
*Swan.....		Dec. 5	Large Anemone	S-1	
Spangles.....		Dec. 5	Int. Pompon	S-2	
Cotillion.....		Dec. 5	Int. Semi-Formal Pompon	S-2	
Orway.....		Dec. 8	Large Single	P-1	

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(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY-PRICES

CHRYSANTHEMUM MANUAL



WHITE POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
13-WEEK VARIETIES—Cont'd				
Snowdrop	Aug. 15	Dec. 8	Small Pompon	S-2
White Snowdrop		Dec. 8	Small Pompon	P-1
Illini Starlet		Dec. 10	Int. Anemone	P-3
*Imp. White Supreme		Dec. 10	Large Anemone	S-2
Snow Queen		Dec. 10	Int. Formal Pompon	S-2
Snowflake		Dec. 10	Int. Pompon	P-1
Yukon		Dec. 10	Int. Single	S-2
Satellite		Dec. 13	Int. Pompon	S-2

14-WEEK VARIETIES				
Trenton	Aug. 22	Dec. 15	Int. Pompon	P-2
Snowcrest		Dec. 15	Green Eye; Small Pompon	S-3
Cream Snowcrest		Dec. 15	Small Pompon	P-3
Silversmith		Dec. 15	Int. Decorative	S-4
Snowcap		Dec. 15	Large Formal Pompon	S-3
Garza		Dec. 15	Int. Anemone	S-3
Heirloom		Dec. 20	Int. Decorative	S-2
Wedding Bells		Dec. 20	Int. Pompon	P-1

15-WEEK VARIETIES				
Revelation	Aug. 29	Dec. 25	Int. Decorative	S-4
Snow		Dec. 25	Int. Pompon	S-3
Talmeda		Jan. 5	Int. Pompon	P-3
Illini Snowbound		Jan. 5	Int. Decorative	S-1

YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

6-WEEK VARIETIES				
Ming (G)	July 4	Oct. 1	Int. Pompon	P-3
Yel. Chris. Columbus (G)		Oct. 1	Sport of Chris. Columbus	S-3
Moonlight (G)		Oct. 1	Int. Decorative	P-3
Honeycomb (G)		Oct. 1	Small Pompon	S-1

7-WEEK VARIETIES				
Polaris	July 4	Oct. 5	Int. Single	S-2
Chas. Nye		Oct. 5	Int. Decorative	S-2
Garland (G)		Oct. 5	Int. Single	S-1
Yellow Spoon (G)		Oct. 5	Int. Spoon	S-2
Dwight Douglas		Oct. 5	Large Decorative	P-1
Sunstone		Oct. 8	Spoon	P-1
Lee Powell		Oct. 10	Large Decorative	P-3
Goldrush		Oct. 10	Small Single	S-2
Treasure		Oct. 10	Small Pompon	S-1
Bright Forecast		Oct. 10	Small Formal Pompon	S-2
Lemonade		Oct. 12	Ivory Yellow Int. Dec.	S-2
Sweepsake		Oct. 12	Small Pompon	S-1

8-WEEK VARIETIES				
Arlora	July 11	Oct. 15	Large Pompon	P-2
Sundew		Oct. 15	Large Decorative	P-0
Moondrift		Oct. 20	Int. Ivory Yel. Single	P-3

9-WEEK VARIETIES				
Goldfinch	July 18	Oct. 25	Small Pompon	P-0
Ordalía		Oct. 25	Large Decorative	P-2
Starlight		Oct. 25	Large Single	P-3

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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9-WEEK VARIETIES—Cont'd

*Golden Herald.....		Oct. 25	Golden Yellow; L. Dec.	S-4
Gold Coast.....		Oct. 25	Int. Pompon	S-4
Yellow Dot.....		Oct. 25	Int. Pompon	S-2
Cream Dot.....		Oct. 25	Int. Pompon	S-1
Imamura Yellow.....		Oct. 25	Int. Single	S-1
Aztec.....		Oct. 28	Int. Single	P-3
Sunup.....		Oct. 28	Small Pompon	S-2
Yellow Arcadia.....		Oct. 28	Sport of Arcadia	S-2
Sauterne.....		Oct. 30	Int. Single	P-3
Gondola.....		Oct. 30	Int. Single	P-2
Mary L. Hall.....	July 18	Nov. 1	Deep Yellow; Int. Pompon	S-4
Yellow Halo.....		Nov. 1	Sport of Halo	S-1
Schn. Yel. Daisy.....		Nov. 1	Int. Single	S-3
*Yellow Doty.....		Nov. 1	Buff Yellow; Large Pompon	S-2
Starbright.....		Nov. 1	Deep Yellow; L. Single	S-3
Yellow Daisy.....		Nov. 1	Int. Single	S-2
Yellow Sea Gull.....		Nov. 1	Light Yel. Sport of Sea Gull	S-2
Yellow Cassandra.....		Nov. 1	Sport of Cassandra	S-1
Sunray.....		Nov. 3	Int. Single; S. Anemone Center	S-3
Honeymoon.....		Nov. 4	Large Single	P-2

10-WEEK VARIETIES

Barcarole.....		Nov. 5	Int. Pompon	S-3
Brigadoon.....		Nov. 5	Int. Single	S-2
Crescendo.....		Nov. 5	Large Pompon	S-3
Constellation.....		Nov. 5	Int. Decorative	S-3
Pixie.....	July 25	Nov. 5	Small Pompon	S-2
Nuggets.....		Nov. 5	Small Pompon	S-2
Golden Mensa.....		Nov. 5	Sport of White Mensa	S-1
*Yellow Shasta.....		Nov. 10	Sport of Shasta	S-4
Yellow Nagona.....		Nov. 10	Int. Single	S-1
(Calif. Yellow Mensa)				

11-WEEK VARIETIES

Yellow Sculpture.....		Nov. 15	Large Single	P-1
Princeton.....		Nov. 15	Int. Decorative	S-2
Thorobred.....		Nov. 15	Large Single	S-1
Golden Chord.....		Nov. 15	Golden Yellow; Int. Pompon	S-3
Forty-Niner.....		Nov. 15	Int. Formal Pompon	S-4
Yellow Fellow.....		Nov. 15	Int. Decorative	S-2
*Susanne Miller.....		Nov. 15	Large Anemone	S-2
Tacoma.....		Nov. 15	Large Pompon	P-3
*Yellow L. I. Beauty.....	Aug. 1	Nov. 20	Sport of L. I. Beauty	S-2
Yellow Highbrow.....		Nov. 20	Sport of Highbrow	S-1
Lollipop.....		Nov. 20	Int. Pompon	S-3
Pippin.....		Nov. 20	Int. Pompon	S-2
Klondike.....		Nov. 20	Orange Yel.; Int. Pompon	S-3
Bojangles.....		Nov. 20	Int. Single	S-2
Yellow Nevada.....		Nov. 20	Sport of Nevada	S-2
Illini Sunspot.....		Nov. 20	Large Pompon	P-3
Mingo Chief.....		Nov. 20	Int. Anemone	P-1
Yellow Paramount.....		Nov. 23	Sport of Paramount	P-3

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES

CHRYSANTHEMUM MANUAL



YELLOW POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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12-WEEK VARIETIES

Goldenrod.....	Aug. 8	Nov. 25	Int. Pompon	S-2
Illini Gold.....		Nov. 25	Deep Golden Yel. Int. Pompon	S-2
*Goldsmith.....		Nov. 25	Large Decorative	S-3
Highlander.....		Nov. 25	Int. Formal Decorative	S-2
Sunnyside.....		Nov. 25	Int. Pompon	S-3
Champagne.....		Nov. 25	Int. Single	S-1
Illini Wampum.....		Nov. 25	Int. Anemone	P-1
*Yellow Valencia.....		Nov. 28	Sport of Valencia	S-2
Yellow Cordova.....		Nov. 30	Sport of Cordova	S-2
Yellow Fortune.....		Dec. 1	Deep Yellow Sport of Fortune	P-2
Omega.....		Dec. 1	Int. Pompon	S-3
Gold Medal.....		Dec. 1	Small Pompon	P-1
Yellow Galaxy.....		Dec. 1	Sport of Galaxy	S-1

13-WEEK VARIETIES

Golden Harvest.....	Aug. 15	Dec. 5	Deep Gold; Small Pompon	S-1
Brandywine.....		Dec. 5	Orange Yellow; Int. Dec.	S-1
Jack-Pot.....		Dec. 5	Golden Yellow; L. Dec.	S-2
Yellow Acclaim.....		Dec. 5	Int. Pompon	P-3
Yellow Cameo.....		Dec. 5	Sport of Cameo	S-2
Yellow Spangles.....		Dec. 5	Sport of Spangles	P-3
Cinderella.....		Dec. 5	Int. Single	S-2
Goldtone.....		Dec. 5	Int. Single	S-1
*Imp. Yel. Supreme.....		Dec. 10	Large Anemone	S-2
Yellow Satellite.....		Dec. 10	Int. Pompon	P-1
Goldie.....		Dec. 10	Small Pompon	P-1
Challenge.....		Dec. 10	Int. Single	S-1
Corsair.....		Dec. 10	Large Semi-Formal Pompon	S-2

14-WEEK VARIETIES

Yellow Riviera.....	Aug. 22	Dec. 15	Golden Yel.; Sport of Riviera	S-2
Yellow Snowcrest.....		Dec. 15	Sport of Snowcrest	S-2
Yellow Garza.....		Dec. 15	Sport of Garza	S-2
Sequin.....		Dec. 15	Small Pompon	S-1
Shamrock.....		Dec. 15	Large Decorative	S-3
December Gold.....		Dec. 15	Golden Yel.; Int. Decorative	S-2
Sunkist.....		Dec. 20	Int. Single	S-1
*Vibrant.....		Dec. 20	Int. Decorative	S-3
Revelry.....		Dec. 20	Int. Decorative	S-2
Gold Seal.....		Dec. 20	Int. Single	P-3
Sunrise.....		Dec. 20	Int. Pompon	S-2
Golden Anniversary.....		Dec. 25	Small Pompon	S-2

15-WEEK VARIETIES

Siren.....	Aug. 29	Dec. 25	Int. Decorative	S-3
Yuleflame.....		Dec. 25	Large Decorative	S-3
Yellow Snow.....		Dec. 25	Sport of Snow	S-3
Ill. Yel. Snowbound.....		Jan. 5	Sport of Ill. Snowbound	S-1

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
6-WEEK VARIETIES				
Orloma (G).....	July 4	Sept. 25	Red Int. Decorative	P-1
Orsona (G).....		Sept. 25	Bronze Int. Decorative	P-1
Mme. Cadillac (G).....		Oct. 1	Red Pompon	P-1
W. P. Snyder (G).....		Oct. 1	Coral Bronze; Int. Decorative	S-1
Marionette.....		Oct. 1	Rust Red; Small Pompon	S-1
Mogul.....		Oct. 1	Raspberry Bronze; Small Dec.	P-3
Bonfire.....		Oct. 1	Red Pompon	S-1
7-WEEK VARIETIES				
Remembrance (G).....	July 4	Oct. 5	Red Pompon	S-1
Avalon (G).....		Oct. 5	Light Bronze; Small Pompon	P-3
Mona (G).....		Oct. 5	Small Pompon	S-1
Regina (G).....		Oct. 5	Apricot Bronze; Int. Decorative	P-1
Hunisman.....		Oct. 5	Reddish Bronze; Large Dec.	S-1
Firecracker.....		Oct. 5	Mahogany Bronze; Int. Dec.	S-1
Buckeye (G).....		Oct. 8	Int. Salmon Bronze Pompon	P-2
Success (G).....		Oct. 8	Crimson; Int. Dec.	S-1
Panorama.....		Oct. 8	Orange Bronze; Small Pompon	P-3
Red Velvet (G).....		Oct. 10	Velvety Crimson; Int. Dec.	S-1
Bamboo.....		Oct. 10	Buff Bronze; Small Single	S-1
Caravan (G).....		Oct. 10	Salmon Bronze; Int. Dec.	S-1
Orpheus.....		Oct. 10	Roman Red; Int. Pompon	P-1
Carmine Queen.....		Oct. 10	Carmine Red; Small Pompon	S-1
Carnival.....		Oct. 10	Burnt-Orange; Small Pompon	S-2
Fireside.....		Oct. 10	Burnt-Orange; Salmon; Int. Dec.	S-1
Nocturne.....		Oct. 12	Crimson; Small Pompon	S-1
Nytoda.....		Oct. 12	Apricot Buff; Int. Single	P-3
Mrs. Du Pont (G).....		Oct. 12	Coral Buff; Large Decorative	S-2
Admiral (G).....		Oct. 12	Crimson; Int. Decorative	S-1
Moonmaid.....		Oct. 14	Salmon Bronze; Int. Pompon	P-2
8-WEEK VARIETIES				
Robinhue.....	July 11	Oct. 15	Red; Int. Decorative	S-1
Red Glow.....		Oct. 15	Crimson Red; Int. Decorative	S-1
Calumet.....		Oct. 15	Light Bronze; L. Pompon	P-1
Rajah.....		Oct. 15	Scarlet Red; Int. Single	S-1
Detroit.....		Oct. 15	Reddish Bronze; Small Pompon	S-1
James Stewart.....		Oct. 15	Apricot Gold; Small Pompon	S-2
Talisman.....		Oct. 20	Talisman Bronze; Int. Single	P-2
Paradise.....		Oct. 20	Coral Red; Int. Single	P-2
Palette.....		Oct. 20	Dark Salmon; Int. Single	P-2
Br. Mary McArthur.....		Oct. 23	Sport of Mary McArthur	S-1
9-WEEK VARIETIES				
Gaiety.....	July 18	Oct. 25	Coral Bronze; Int. Single	P-2
Firebird.....		Oct. 25	Reddish Bronze; Int. Dec.	S-2
Bronze Dot.....		Oct. 25	Sport of Pink Dot	S-3
Buckskin.....		Oct. 25	Tawny Bronze; Small Single	S-3
Hilarity.....		Nov. 1	Golden Bronze; Int. Single	P-2
Seneca.....		Nov. 1	Orange Red; Int. Dec.	S-2
Firefly.....		Nov. 1	Orange Red; Int. Pompon	S-2

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES

CHRYSANTHEMUM MANUAL



BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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9-WEEK VARIETIES—Cont'd

Bronze Daisy.....		Nov. 1	Light Bronze Sport of Yel. Daisy	S-2
Imp. Bronze Daisy..... (Katoka Red)		Nov. 1	Sport of Br. Daisy	S-1
Buccaneer.....	July 18	Nov. 1	Orange Apricot; Int. Single	S-2
Red Seneca.....		Nov. 1	Red Sport of Seneca	S-2
Bronze Buckingham.....		Nov. 1	Sport of Pk. Calif. Daisy	S-1
Navaho.....		Nov. 1	Red; Int. Pompon	S-2
Red Daisy.....		Nov. 1	Red; Int. Single	S-2
Imp. Red Daisy..... (Adachi Red)		Nov. 1	Sport of Red Daisy	S-2

10-WEEK VARIETIES

Jeffire.....		Nov. 5	Flaming Red; Int. Decorative	P-1
Comanche.....		Nov. 5	Orange Bronze; Int. Pompon	S-1
Flame Glow.....		Nov. 5	Golden Orange; Int. Single	P-2
Orange Beauregard.....		Nov. 5	Golden Br. Sport of Beauregard	S-1
Beauregard.....		Nov. 5	Reddish Orange; Int. Pompon	S-3
Butterscotch.....		Nov. 5	Golden Bronze; Int. Pompon	S-2
Cassandra.....		Nov. 5	Orange Bronze; Int. Pompon	S-2
Red Rust.....		Nov. 5	Reddish Bronze; Int. Dec.	S-2
Rubicon.....		Nov. 5	Bronze Red; Int. Dec.	S-3
Magician.....		Nov. 5	Bronze; L. Pompon	S-2
Bittersweet.....		Nov. 5	Bittersweet Red; Int. Single	S-2
Samovar.....		Nov. 10	Reddish Bronze; Int. Pompon	S-3
Sylvanna.....		Nov. 10	Reddish Orange; Int. Single	S-2
Chanticleer.....		Nov. 10	Reddish Bronze; L. Pompon	S-1
Firegleam.....		Nov. 10	Fiery Orange; Int. Dec.	P-1
Chevron.....	July 25	Nov. 10	Red Orange; Int. Dec.	S-2
*The Titan.....		Nov. 10	Red; Large Anemone	S-1
*Bronze Thyra.....		Nov. 10	Sport of Thyra	S-1
Bronze Pandora.....		Nov. 10	Coral Bronze; Sport of Pandora	P-1
Barbara Fuller.....		Nov. 10	Coral Red; Int. Anemone	P-1
*Copperhead.....		Nov. 10	Coppery Bronze; L. Dec.	S-3
Bronze Linda Lou.....		Nov. 10	Sport of Linda Lou	S-2
*Bronze Tuxedo.....		Nov. 10	L. Anemone; Sport of Tuxedo	S-1
Gold Braid.....		Nov. 12	Yel. Bronze-Red Center; Int. Pom.	S-1
Illini Regal.....		Nov. 12	Crimson; Int. Pom.	P-1
*Bronze Masterpiece.....		Nov. 12	Sport of Masterpiece	S-2
*Dk. Br. Masterpiece.....		Nov. 12	Sport of Br. Masterpiece	S-2
*Paragon.....		Nov. 12	Red; L. Pompon	S-3
Illini Tangier.....		Nov. 12	Reddish Bronze; L. Decorative	P-3
Red King.....		Nov. 13	Large Red Single	P-3
Cadet.....		Nov. 14	Red; Int. Anemone	P-3

11-WEEK VARIETIES

Mrs. Dewey.....		Nov. 15	Deep Bronze; L. Single	S-2
Shalimar.....		Nov. 15	Orange Bronze; Int. Anemone	S-1
Red Princeton.....	Aug. 1	Nov. 15	Brazil Red; Sport of Princeton	S-2
Illini Honey.....		Nov. 15	Honey Amber, Small Pompon	S-1

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

BRONZE AND RED POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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11-WEEK VARIETIES—Cont'd

Illini Redhead.....	Aug. 1	Nov. 17	Deep Red; Small Pompon	S-1
Illini Warrior.....		Nov. 20	Bronzy Orange; Small Pompon	S-2
Legal Tender.....		Nov. 20	Bronze & Gold; Int. Dec.	S-2
Rubaiyat.....		Nov. 20	Velvet Red; Int. Formal	P-1
Rusticon.....		Nov. 20	Rust Red; Int. Pompon	S-3
Thelma.....		Nov. 20	Orange Scarlet; Int. Pompon	S-2
Bourbon.....		Nov. 20	Rust Bronze; Int. Single	S-1
Carousel.....		Nov. 23	Coral Bronze; Int. Single	S-1
Festival.....		Nov. 23	Apricot Red; Small Single	S-2
Bronze Minuet.....		Nov. 23	Sport of Minuet	S-2
Dark Bronze Minuet.....		Nov. 23	Salmon Bronze; Sport of Br. Minuet	P-1
*Red Rolinda.....		Nov. 23	Red; Int. Anemone	S-2

12-WEEK VARIETIES

Illini Redwood.....	Aug. 8	Nov. 25	Red; Int. Pompon	P-3
*Bronze Goldsmith.....		Nov. 25	Mars Orange; Int. Dec.	S-3
Wanakah.....		Nov. 25	Sport of Hasegawa Pink	P-3
Falcon.....		Nov. 25	Reddish Bronze; Int. Pompon	S-2
Yolanda.....		Nov. 25	Dk. Orange Bronze; Int. Anemone	S-1
Indian Head.....		Nov. 28	Reddish Apricot; Int. Single	S-2
*Apricot Valencia.....		Nov. 28	Sport of Valencia	S-2
*Crimson Valencia.....		Nov. 28	Sport of Valencia	S-2
Amberina.....		Dec. 1	Orange Bronze; Int. Dec.	S-1
Red Heritage.....		Dec. 1	Salmon Red; Sport of Heritage	P-1
Galaxy.....		Dec. 1	Orange Scarlet; Int. Single	S-3
Orange Galaxy.....		Dec. 1	Dark Sport from Galaxy	P-1

13-WEEK VARIETIES

Dazzler.....	Aug. 15	Dec. 5	Coppery Bronze; Partial Anemone	S-1
*Bronze Enchantress.....		Dec. 5	Sport of Enchantress	S-1
Debonair.....		Dec. 5	Crimson Red; L. Pompon	S-2
Mahogany Viking.....		Dec. 5	Mahogany Bronze; Int. Single	S-1
*Imp. Bronze Supreme.....		Dec. 10	Large Anemone	S-1
*Red Supreme.....		Dec. 10	Sport of Dk. Pk. Supreme	S-1
Cavalcade.....		Dec. 10	Mandarin Red; Int. Pompon	S-1
Harlequin.....		Dec. 10	Crimson Red; Int. Decorative	S-1
Holiday.....		Dec. 10	Crimson Red; Int. Single	S-2
Pageantry.....		Dec. 10	Red; Int. Pompon	S-1
Christmas Star.....		Dec. 12	Scarlet Red; Int. Single	S-3
*Bronze Minstrel.....		Dec. 13	Coral Sport of Minstrel	S-2
*Dark Bronze Minstrel.....		Dec. 13	Reddish Bronze Sport of Minstrel	S-1
*Red Minstrel.....		Dec. 13	Red Sport of Br. Minstrel	P-1

14-WEEK VARIETIES

Bronze Riviera.....	Aug. 22	Dec. 15	Sport of Riviera	S-2
Claref.....		Dec. 15	Brilliant Red; Int. Single	S-1
Topaz.....		Dec. 15	Orange Bronze; Int. Single	S-1
*Christmas Greeting.....		Dec. 15	Crimson Scarlet; Int. Dec.	S-3
Sarong.....		Dec. 15	Crimson; Int. Single	S-2
Merrymaker.....		Dec. 20	Scarlet Red; Int. Single	S-3
Poinsettia.....		Dec. 20	Scarlet Red; L. Single	S-2

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES

CHRYSANTHEMUM MANUAL



PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
6-WEEK VARIETIES				
Orchid Helen (G).....	July 4	Sept. 25	Lavender, Small Dec.	S-1
Early Wonder.....		Oct. 1	Lavender, Int. Pompon	S-1
Sonny (G).....		Oct. 1	Salmon Pink, Button	P-0
Spellbound (G).....		Oct. 1	Int. Decorative	S-3
Alex Cummings.....		Oct. 1	Salmon Pink, L. Dec.	P-2
7-WEEK VARIETIES				
Petrisian Mauve (G).....	July 4	Oct. 5	Int. Pompon	P-1
Petrisian Pink (G).....		Oct. 5	Int. Pompon	P-1
Petrisian Rose (G).....		Oct. 5	Int. Pompon	P-1
Miguel.....		Oct. 10	Strawberry Pink, Int. Dec.	P-1
Courtier (G).....		Oct. 10	Lavender Pink Decorative	S-1
Dream Girl.....		Oct. 10	Int. Pompon	S-2
Ponca (G).....		Oct. 10	Dk. Lavender, Small Decorative	S-1
Corona (G).....		Oct. 10	Raspberry Pink, Int. Single	P-1
Lassie.....		Oct. 10	Dk. Pk.; Int. Decorative	S-1
Serenade.....		Oct. 10	Magenta Pink; Int. Single	S-1
Orchid Spoon (G).....		Oct. 10	Int. Spoon	S-1
Joybringer (G).....		Oct. 10	Salmon Rose; Int. Pompon	S-2
Brigadier.....		Oct. 10	Salmon Rose; Int. Decorative	S-1
Sweetheart.....		Oct. 10	Light Lavender; Int. Single	S-1
Allegro (G).....		Oct. 12	Small Decorative	S-1
Masquerade (G).....		Oct. 12	Small Pompon	S-1
Ronnie (G).....		Oct. 12	Dk. Lavender, Small Pompon	S-1
Lavender Lady (G).....		Oct. 12	Light Lavender; Large Decorative	S-1
Sonnet (G).....		Oct. 14	Salmon Pink; Int. Pompon	P-2
Betty.....		Oct. 14	Lt. Salmon Pink; Int. Pompon	S-1
8-WEEK VARIETIES				
Fairyland.....	July 11	Oct. 15	Pink; Int. Decorative	P-2
Mayfair.....		Oct. 15	Pink; Int. Single	P-3
Jester.....		Oct. 15	Dark Orchid Pink; Int. Single	P-2
Citation.....		Oct. 15	Pink; Int. Pompon	P-2
Enterprise.....		Oct. 15	Amaranth, Int. Pompon	P-3
Eliz. Hood.....		Oct. 15	Lavender; Large Pompon	P-3
Jewell.....		Oct. 15	Lavender; Small Pompon	S-2
Tsukushi Pink.....		Oct. 20	Light Pink, Int. Single	S-1
Mirth.....		Oct. 20	Light Pink, Int. Single	P-2
Carolyn Yosick.....		Oct. 20	Lavender; Small Decorative	S-3
Mary McArthur.....		Oct. 23	Small Pompon	S-2
Prelude.....		Oct. 24	Coral Pink; Int. Single	P-2
9-WEEK VARIETIES				
Pinkette.....	July 18	Oct. 25	Pink; Int. Pompon	P-3
Vogue.....		Oct. 25	Pink; Large Single	P-2
Reward.....		Oct. 25	Int. Single	S-3
Pink Dot.....		Oct. 25	Int. Pompon	S-4
Jessie.....		Oct. 25	Lavender; Int. Pompon	S-2
*Betty Rose.....		Oct. 25	Lavender; L. Anemone	S-1
October Pink.....		Oct. 25	Int. Single	S-2

* Responds to Disbudding.

(G) Recommended for Garden Culture.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
9-WEEK VARIETIES—Cont'd				
Bluechip.....	July 18	Nov. 1	Pink; Int. Decorative	S-1
Pk. Calif. Daisy.....		Nov. 1	Int. Single	S-2
(W. H. Buckingham)				
Rainbow.....		Nov. 1	Coral Pink; Int. Single	S-1
Ballerina.....		Nov. 1	Int. Single	S-2
*Lillian Doty.....		Nov. 1	Rose Pink; L. Pompon	S-2
Lotus.....		Nov. 3	Pink; Int. Pompon	P-2
Tempo.....		Nov. 3	Deep Pink; Int. Decorative	P-2

10-WEEK VARIETIES				
Parisienne.....	July 25	Nov. 5	Shell Pink, Int. Single	P-1
Dreamboat.....		Nov. 5	Lavender Pink; Int. Pompon	S-2
Dark Bulkeley.....		Nov. 8	Int. Formal Pompon	S-2
*Portrait.....		Nov. 8	Pink; Large Pompon	S-2
*Criferion.....		Nov. 8	Pink; Large Decorative	P-1
Pennant.....		Nov. 10	Pink; Int. Decorative	P-3
Cover Girl.....		Nov. 10	Light Pink; Int. Anemone	P-2
Nobility.....		Nov. 10	Light Pink; Int. Single	P-2
Pandora.....		Nov. 10	Luminous Pink; L. Dec.	S-2
*Thyra.....		Nov. 10	Int. Formal Pompon	S-2
Soprano.....		Nov. 10	Large Single	S-2
Linda Lou.....		Nov. 10	Yellow Cushion; Int. Anemone	S-3
Dark Linda Lou.....		Nov. 10	Sport of Linda Lou	S-2
*Tuxedo.....		Nov. 10	Large Anemone	S-1
*Humdinger.....		Nov. 10	Violet Purple; L. Pompon	P-1
*Masterpiece.....		Nov. 12	Int. Pompon	S-3
*Rose Masterpiece.....		Nov. 12	Rose Pk. Sport of Masterpiece	S-2
*Salmon Masterpiece.....		Nov. 12	Salmon Pk. Sport of Masterpiece	S-2
Memorial.....		Nov. 12	Int. Anemone	S-2

11-WEEK VARIETIES				
Taffeta.....	Aug. 1	Nov. 15	Two-Tone Pink; Int. Dec.	S-3
Arbutus.....		Nov. 15	Shrimp Pink, Small Pompon	S-1
Carole.....		Nov. 15	Lt. Pk., Salm. Cush.; Int. Anemone	P-2
*Dark Norma.....		Nov. 15	Deep Lavender; L. Anemone	S-2
Orchid Beauty.....		Nov. 15	Golden Cushion; Int. Anemone	S-1
Brocade.....		Nov. 15	Shell Pink; Int. Single	S-2
Illini Springtime.....		Nov. 15	Pink; Int. Single	P-1
Polka.....		Nov. 20	Pink; Int. Anemone	P-2
Nugano.....		Nov. 20	Pink; Int. Pompon	P-2
Grand Slam.....		Nov. 20	Silvery Shell Pk.; L. Single	S-2
*Almega.....		Nov. 20	Lavender Pink; Large Pompon	S-2
*Vivacious Lady.....		Nov. 20	Spoon Type Novelty	S-1
*Pink L. I. Beauty.....		Nov. 20	Lt. Pk. Sport of L. I. Beauty	S-2

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES

CHRYSANTHEMUM MANUAL



PINK POMPONS, DECORATIVES, SINGLES AND ANEMONES

Variety	Last Pinch	Flowering Date	Description	Price Classification
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11-WEEK VARIETIES—Cont'd

Pinky	Aug. 1	Nov. 20	Int. Decorative	S-1
*Dark L. I. Beauty		Nov. 20	Imp. Pink L. I. Beauty	S-1
Dark Pink Majorette		Nov. 20	Dark Pink Sport of Majorette	P-2
Majorette		Nov. 20	Int. Anemone	S-1
Minuet		Nov. 23	Int. Pompon	S-3
Dark Pink Minuet		Nov. 23	Deep Pink Sport of Minuet	P-1
Illini Formal		Nov. 23	Rose Pink; Int. Pompon	P-3

12-WEEK VARIETIES

Pink Cloud	Aug. 8	Nov. 25	Light Pink; Int. Decorative	P-2
Princess		Nov. 25	Small Pompon	S-2
Hasegawa Pink		Nov. 25	Lavender; Int. Single	S-2
*Beautiful Lady		Nov. 25	Lavender; L. Anemone	S-3
*Valencia		Nov. 28	Orchid Pk.; Large Single	S-2
*Dark Valencia		Nov. 28	Sport of Valencia	S-3
*Dubonnet Valencia		Nov. 28	Deep Orchid Sport of Valencia	P-3
*Orchid Valencia		Nov. 28	Orchid Sport of Valencia	S-1
*Salmon Valencia		Nov. 28	Salmon Pink Sport of Valencia	S-2
Heritage		Dec. 1	Dark Pink; L. Formal Pompon	S-2

13-WEEK VARIETIES

*Enchantress	Aug. 15	Dec. 5	Large Anemone	S-2
*Dark Enchantress		Dec. 5	Deep Pk. Sport of Enchantress	S-2
Argyle		Dec. 10	Pink; Small Pompon	P-2
Debutante		Dec. 10	Large Single	S-3
*Imp. Dark Supreme		Dec. 10	Sport of Dk. Pk. Supreme	S-2
*Minstrel		Dec. 13	Int. Formal Pompon	S-3
*Lt. Pk. Minstrel		Dec. 13	Sport of Minstrel	S-1
*Dk. Pk. Minstrel		Dec. 13	Sport of Minstrel	P-1
*Imp. Pk. Minstrel		Dec. 13	Sport of Minstrel	P-1

14-WEEK VARIETIES

Riviera	Aug. 22	Dec. 15	Luminous Pink; Int. Dec.	S-3
Serrated Riviera		Dec. 15	Sport of Riviera	P-3
Coronet		Dec. 15	Dark Pink; Int. Single	S-1
Rosalind		Dec. 20	Int. Single	S-2
Defiance		Dec. 20	Int. Decorative	S-2
Medallion		Dec. 20	Int. Pompon	S-2
Rose Medallion		Dec. 20	Sport of Medallion	S-1
Lynda McLane		Dec. 25	Pink, Int. Pompon	P-1

* Responds to Disbudding.

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES



CHRYSANTHEMUM MANUAL

WHITE STANDARDS

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
8-WEEK VARIETIES					
Silver Sheen.....	July 11	Aug. 30	Oct. 20	Int. Incurred	S-3
White Chief.....		Aug. 30	Oct. 20	Int. Incurred	S-2
9-WEEK VARIETIES					
Ambassador.....	July 18	Aug. 30	Oct. 25	Cream White; Int. Semi-Incurred	S-2
Albatross.....		Sept. 5	Nov. 1	Pure White; Int. Incurred	S-4
10-WEEK VARIETIES					
Betsy Ross.....	July 25	Sept. 5	Nov. 5	Ivory White; L. Incurred	S-3
Giant Betsy Ross.....		Sept. 5	Nov. 5	Sport of Betsy Ross	S-4
Indianapolis White.....		Sept. 5	Nov. 5	Int. Incurred	S-4
Jean Elizabeth.....		Sept. 8	Nov. 10	L. Semi-Incurred	S-3
Crystal Queen.....		Sept. 8	Nov. 10	Imp. Jean Elizabeth	S-2
White Pockett.....		Sept. 8	Nov. 10	Large Incurred	S-2
Monument.....		Sept. 8	Nov. 10	Ivory White; Int. Incurred	S-3
11-WEEK VARIETIES					
Sterling.....	Aug. 1	Sept. 10	Nov. 15	Large Incurred	S-2
Marketeer.....		Sept. 15	Nov. 18	Int. Semi-Incurred	S-3
Mefo.....		Sept. 20	Nov. 20	Ivory White; L. Incurred	S-4
Cream Mefo.....		Sept. 20	Nov. 20	Cream Sport of Mefo	S-2
White Frick.....		Sept. 20	Nov. 20	Int. Incurred	S-2
Indiana Market.....		Sept. 20	Nov. 20	Int. Incurred	S-1
12-WEEK VARIETIES					
Chattanooga.....	Aug. 8	Sept. 30	Nov. 25	Large Incurred	S-3
December Glory.....		Oct. 1	Dec. 1	Ivory White; Int. Incurred	S-4
Margaret Moeller.....		Oct. 1	Dec. 3	Int. Incurred	S-3
13-WEEK VARIETIES					
December White.....	Aug. 15	Oct. 5	Dec. 5	Int. Incurred	S-2
White Mistletoe.....		Oct. 5	Dec. 5	Int. Incurred	S-2
Snowline.....		Oct. 8	Dec. 10	Large Incurred	S-2
Smith's White.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-4
Smith's Cream White.....		Oct. 8	Dec. 13	Int. Semi-Incurred	P-1

YELLOW STANDARDS

8-WEEK VARIETIES					
Harvest Golden.....	July 11	Aug. 25	Oct. 15	Large Decorative	S-1
Gold Lode.....		Aug. 25	Oct. 15	Int. Reflexed	S-2
Celestra.....		Aug. 25	Oct. 15	Small Semi-Incurred	S-2
Mrs. Kidder.....		Aug. 30	Oct. 20	Int. Incurred	S-3
Butterball.....		Aug. 30	Oct. 20	Int. Incurred	S-2
Blazing Gold.....		Aug. 30	Oct. 23	Golden Yellow; Int. Semi-Incurred	S-4
9-WEEK VARIETIES					
Smith Superlative.....	July 18	Aug. 30	Oct. 25	Golden Yellow; Int. Semi-Incurred	S-1
Yellow Ambassador.....		Aug. 30	Oct. 25	Sport of Ambassador	S-2
Sunglow.....		Aug. 30	Oct. 25	Golden Yellow; Int. Incurred	S-2
Golden Glory.....		Sept. 5	Nov. 1	Golden Yellow; Int. Incurred	S-2
Good News.....		Sept. 5	Nov. 1	Int. Incurred	S-4
Yellow Ivanhoe.....		Sept. 5	Nov. 1	Sport of Ivanhoe	P-1
10-WEEK VARIETIES					
Imp. Ind. Yellow.....	July 25	Sept. 5	Nov. 5	Sport of Ind. Yellow	S-4
Indianapolis Yellow.....		Sept. 5	Nov. 5	Int. Incurred	S-4
Dk. Indianapolis Yellow...		Sept. 5	Nov. 5	Sport of Ind. Yellow	S-4
Yellow Queen.....		Sept. 8	Nov. 10	Sport of Orchid Queen	S-3
Jamboree.....		Sept. 8	Nov. 10	Golden Yellow; Int. Incurred	S-1
Yellow Pockett.....		Sept. 8	Nov. 10	Large Incurred	S-2
Yellow Monument.....		Sept. 8	Nov. 10	Sport of Monument	S-3
Honey Dew.....		Sept. 8	Nov. 12	Int. Incurred	S-1
11-WEEK VARIETIES					
Yellow Marketeer.....	Aug. 1	Sept. 15	Nov. 18	Sport of Marketeer	S-1
Bonnaillon Deluxe.....		Sept. 20	Nov. 20	Small Incurred	S-4
Friendly Rival.....		Sept. 20	Nov. 20	Int. Incurred	S-3
Yellow Mefo.....		Sept. 20	Nov. 20	Sport of Mefo	S-4
Purdue.....		Sept. 25	Nov. 20	Int. Incurred	S-1
Harvester.....		Sept. 20	Nov. 23	Int. Incurred	S-3
Marie DePetris.....		Sept. 25	Nov. 23	Golden Yellow; Int. Incurred	S-3

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES.

CHRYSANTHEMUM MANUAL



YELLOW STANDARDS — Cont'd

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
12-WEEK VARIETIES					
Dk. Yel. Chattanooga.....	Aug. 8	Sept. 30	Nov. 25	Sport of Chattanooga	S-1
Yellow Chattanooga.....		Sept. 30	Nov. 25	Sport of Chattanooga	S-3
Golden Pearson.....		Sept. 30	Nov. 25	Int. Incurred	S-3
Sungold.....		Sept. 30	Nov. 25	Int. Incurred	S-3
Mrs. Calkins.....		Sept. 30	Nov. 25	Golden-Yel. Semi Inc.	S-1
Golden Mrs. Ross.....		Oct. 1	Dec. 3	Golden Yellow; L. Incurred	S-3
Yellow Moeller.....		Oct. 1	Dec. 3	Sport of Margaret Moeller	S-2
13-WEEK VARIETIES					
Golden Mistletoe.....	Aug. 15	Oct. 5	Dec. 5	Int. Incurred	S-1
Chalice.....		Oct. 5	Dec. 5	Int. Incurred	S-1
Tobin's Yellow.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-3
Meteore.....		Oct. 8	Dec. 13	Int. Semi-Incurred	S-3
Dauntless.....		Oct. 8	Dec. 13	Golden Yellow; Semi-Incurred	S-2

BRONZE and RED STANDARDS

8-WEEK VARIETIES					
Mayford's Triumph.....	July 11	Aug. 30	Oct. 15	Orange Bronze Dec.	S-1
Amber Bright.....		Aug. 30	Oct. 15	Golden Bronze Semi-Inc.	S-1
9-WEEK VARIETIES					
Hilda Bergen.....	July 18	Aug. 30	Oct. 25	Int. Incurred	S-2
Glitters.....		Sept. 1	Oct. 28	Reddish Orange; Int. Reflexed	S-1
Red Glitters.....		Sept. 1	Oct. 28	Sport of Glitters	S-1
Ivanhoe.....		Sept. 5	Nov. 1	Reddish Bronze; Small Incurred	S-2
Apricot Queen.....		Sept. 5	Nov. 1	Orange Bronze; Int. Incurred	S-2
Detroit News.....		Sept. 5	Nov. 1	Reddish Bronze; Int. Incurred	S-4
10-WEEK VARIETIES					
Indianapolis Bronze.....	July 25	Sept. 5	Nov. 5	Int. Incurred	S-4
Dark Ind. Bronze.....		Sept. 5	Nov. 5	Sport of Ind. Bronze	S-2
Anaconda.....		Sept. 7	Nov. 8	Coppery Red; Large Incurred	S-2
Oakdale.....		Sept. 8	Nov. 10	Buff Bronze; Int. Incurred	S-1
Mrs. Stahelin.....		Sept. 8	Nov. 10	Reddish Bronze; Int. Incurred	S-2
Bronze Orchid Queen.....		Sept. 8	Nov. 10	Sport of Orchid Queen	S-2
Mrs. Roy.....		Sept. 10	Nov. 13	Red; Int. Incurred	S-3
Garnet King.....		Sept. 10	Nov. 13	Deep Red; Int. Reflexed	S-2
11-WEEK VARIETY					
Bronze Frick.....	Aug. 1	Sept. 20	Nov. 20	Sport of Helen Frick	S-2
12-WEEK VARIETIES					
Gladys Pearson.....	Aug. 8	Sept. 30	Nov. 25	Buff Bronze; Int. Incurred	S-3
Oak Leaf.....		Sept. 30	Nov. 25	Deep Bronze; Int. Incurred	S-3
Muto's Crimson.....		Oct. 1	Dec. 1	Red; Int. Semi-Incurred	S-2
13-WEEK VARIETY					
Bronze Mistletoe.....	Aug. 15	Oct. 5	Dec. 5	Int. Incurred	S-2

PINK STANDARDS

8-WEEK VARIETIES					
Pink Chief	July 11	Aug. 25	Oct. 15	Lavender; Int. Incurred	S-3
Major Bowes		Aug. 30	Oct. 20	Lavender; Int. Incurred	S-1
9-WEEK VARIETY					
Sugarplum	July 18	Sept. 5	Nov. 1	Int. Incurred	S-1
10-WEEK VARIETIES					
J. W. Prince	July 25	Sept. 5	Nov. 5	Lav.; Int. Incurred	S-2
Indianapolis Pink		Sept. 5	Nov. 5	Int. Incurred	S-4
Orchid Queen		Sept. 8	Nov. 10	Orchid Pink; Semi-Incurred	S-2
Lavender Queen		Sept. 8	Nov. 10	Sport of Orchid Queen	S-2
Dark Orchid Queen		Sept. 8	Nov. 10	Deep Pink Sport of Orch. Queen	S-3
Pink Pockett		Sept. 8	Nov. 10	Large Incurred	S-2
11-WEEK VARIETIES					
Helen Frick	Aug. 1	Sept. 20	Nov. 20	Rose Pink; Int. Incurred	S-3
Thanksgiving Pink		Sept. 25	Nov. 23	Deep Pink; Int. Reflexed	S-3
Ed. Seidewitz		Sept. 25	Nov. 23	Lavender; Int. Incurred	S-2
13-WEEK VARIETY					
Pink Mistletoe	Aug. 15	Oct. 5	Dec. 5	Int. Incurred	S-2

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES.



CHRYSANTHEMUM MANUAL

Odd-Flowered Spider Types

Variety	Last Pinch	Select Bud	Flowering Date	Description	Price Classification
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9-WEEK VARIETIES

Silver Queen.....	July 18	Sept. 3	Oct. 25	White Fuji	P-1
Moribana.....		Sept. 3	Oct. 25	Yellow	P-3
Luyona.....		Sept. 3	Oct. 25	Yellow	P-1
Dalwin.....		Sept. 3	Oct. 25	Bronze	P-3
Queen's Lace.....		Sept. 5	Nov. 1	White	S-3
Kay Tashima.....		Sept. 5	Nov. 1	White	S-1
White Mary Garden.....		Sept. 5	Nov. 1	White	P-1
Yellow Lace.....		Sept. 5	Nov. 1	Yellow	S-3
Gold Lace.....		Sept. 5	Nov. 1	Imp. Yellow Lace	S-1
Hooked Yellow Lace.....		Sept. 5	Nov. 1	Sport Yel. Lace	S-1
Antique.....		Sept. 5	Nov. 1	Bronze	P-1
Mrs. Walker.....		Sept. 5	Nov. 1	Deep Lavender	S-1
Mary Garden.....		Sept. 5	Nov. 1	Pink	S-2

10-WEEK VARIETIES

White Rayonnante.....	July 25	Sept. 5	Nov. 5	White	S-2
Yellow Rayonnante.....		Sept. 5	Nov. 5	Yellow	S-2
Yellow Curly Spider.....		Sept. 5	Nov. 5	Yellow	S-1
Waikiki.....		Sept. 5	Nov. 5	Apricot Bronze	S-1
Gená Harwood..... (Br. Rayonnante)		Sept. 5	Nov. 5	Bronze	S-2
Nomago.....		Sept. 5	Nov. 5	Bronze	S-2
Mamoru.....		Sept. 5	Nov. 5	Buff Bronze	S-1
Rayonnante.....		Sept. 5	Nov. 5	Pink	S-2
Peggy Ann Hoover.....		Sept. 5	Nov. 10	Pink	S-1

11-WEEK VARIETIES

Lorraine.....	Aug. 1	Sept. 10	Nov. 15	Yellow	S-1
Mrs. Eisenhower.....		Sept. 10	Nov. 18	Golden Bronze	P-1

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES.

CHRYSANTHEMUM MANUAL

Pot Plant Varieties



Variety	Last Pinch	Spray or Disbud	Date Flowering	Type	Price Classification
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WHITE

8-WEEK VARIETY

Christina	Aug. 30	Disbud	Oct. 23	L.F. Inc.	S-2
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9-WEEK VARIETIES

Granite State	Aug. 13	Disbud	Oct. 25	L.F. Inc.	S-3
Queen's Lace	Sept. 13	Disbud	Nov. 1	Spider	S-3
Wilson's White	Aug. 30	Disbud	Nov. 1	L.F. Inc.	S-2

10-WEEK VARIETIES

Indianapolis White	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-4
Richard Mandel	Sept. 6	Disbud	Nov. 5	L.F. Inc.	S-2
Little America	Sept. 6	Disbud	Nov. 10	Int. Anem.	S-3
Pacesetter	Sept. 6	Disbud	Nov. 10	L. Single	P-3
Illini Snowdrift	Sept. 6	Spray	Nov. 12	Novelty	S-3

11-WEEK VARIETIES

Marketeer	Sept. 13	Disbud	Nov. 18	L.F. Inc.	S-3
Long Island Beauty	Sept. 13	Disbud	Nov. 20	L. Anem.	S-3
White Frick	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-2

12-WEEK VARIETIES

White Lady	Sept. 20	Disbud	Nov. 25	L. Anem.	S-1
Margaret Moeller	Sept. 20	Disbud	Dec. 3	L.F. Inc.	S-3

YELLOW

8-WEEK VARIETIES

Arlora	Aug. 30	Disbud	Oct. 15	L. Pom.	P-2
Gold Lode	Aug. 30	Disbud	Oct. 15	L.F. Dec.	S-2
Mrs. H. E. Kidder	Aug. 30	Disbud	Oct. 20	L.F. Inc.	S-3
Blazing Gold	Aug. 30	Disbud	Oct. 23	L.F. Inc.	S-4

9-WEEK VARIETIES

Ordalia	Aug. 30	Disbud	Oct. 25	L. Pom.	P-2
Smith's Superlative	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-1
Sunglow	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-2
Golden Glory	Aug. 30	Disbud	Nov. 1	L.F. Inc.	S-2
Yellow Lace	Sept. 13	Disbud	Nov. 1	Spider	S-3
Gold Lace	Sept. 13	Disbud	Nov. 1	Spider	S-1
Hooked Yellow Lace	Sept. 13	Disbud	Nov. 1	Spider	S-1

10-WEEK VARIETIES

Dk. Indianapolis Yellow	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-4
Indianapolis Yellow	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-4
Yellow Beauty	Sept. 5	Disbud	Nov. 10	L.F. Inc.	S-2

11-WEEK VARIETIES

Yellow Marketeer	Sept. 13	Disbud	Nov. 18	L.F. Inc.	S-1
Bonnaffon Deluxe	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-4
Friendly Rival	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-3
Marie DePetris	Sept. 13	Disbud	Nov. 23	L.F. Inc.	S-3

12-WEEK VARIETIES

Sungold	Sept. 20	Disbud	Nov. 25	L.F. Inc.	S-3
Yellow Moeller	Sept. 20	Disbud	Dec. 3	L.F. Inc.	S-2

13-WEEK VARIETY

Dauntless	Sept. 27	Disbud	Dec. 13	L.F. Inc.	S-2
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MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES.



WEST COAST LIGHTING TO EXTEND BLOOMING PERIOD OF RAYONNANTE VARIETIES



CHRYSANTHEMUM MANUAL

Pot Plant Varieties

Variety	Last Pinch	Spray or Disbud	Date Flowering	Type	Price Classification
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BRONZE and RED

9-WEEK VARIETIES

Hilda Bergen	Aug. 30	Disbud	Oct. 25	L.F. Inc.	S-2
Red Glitters	Sept. 13	Disbud	Oct. 28	L.F. Dec.	S-1
Apricot Queen	Sept. 13	Disbud	Nov. 1	L.F. Inc.	S-2
Royal Bronze	Sept. 13	Disbud	Nov. 1	L.F. Inc.	S-2

10-WEEK VARIETIES

Indianapolis Bronze	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-4
Indianapolis Gold. Bronze	Sept. 13	Disbud	Nov. 5	Quilled	S-1
Dark Indianapolis Bronze	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-2
Gypsy	Sept. 6	Spray	Nov. 8	Int. Anem.	S-3
Delaware	Sept. 6	Disbud	Nov. 10	L.F. Inc.	P-1
Barbara Fuller	Sept. 6	Disbud	Nov. 10	L. Anem.	P-1
Copperhead	Sept. 13	Disbud	Nov. 10	L. Pom.	S-3
Dark Bronze Masterpiece	Sept. 13	Disbud	Nov. 12	L. Pom.	S-2
Red King	Sept. 13	Disbud	Nov. 13	L. Single	P-3

11-WEEK VARIETY

Red Rolinda	Sept. 13	Disbud	Nov. 23	Int. Anem.	S-2
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12-WEEK VARIETY

Muto's Crimson	Sept. 20	Disbud	Dec. 1	L.F. Inc.	S-2
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PINK

8-WEEK VARIETY

Fairyland	Aug. 30	Disbud	Oct. 15	Int. Pom.	P-2
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9-WEEK VARIETY

Bluechip	Aug. 30	Disbud	Nov. 1	Int. Pom.	S-1
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10-WEEK VARIETIES

Indianapolis Pink	Sept. 13	Disbud	Nov. 5	L.F. Inc.	S-4
Portrait	Sept. 6	Disbud	Nov. 8	L. Pom.	S-2
Criterion	Sept. 6	Disbud	Nov. 8	L. Pom.	P-1
Humdinger	Sept. 6	Disbud	Nov. 10	L. Pom.	P-1
Thyra	Sept. 6	Disbud	Nov. 10	Int. Pom.	S-2
Queen of Pinks	Sept. 6	Disbud	Nov. 10	L. Pom.	S-4
Masterpiece	Sept. 13	Disbud	Nov. 12	L. Pom.	S-3
Rose Masterpiece	Sept. 13	Disbud	Nov. 12	L. Pom.	S-2

11-WEEK VARIETIES

Helen Frick	Sept. 13	Disbud	Nov. 20	L.F. Inc.	S-3
Majorette	Sept. 13	Disbud	Nov. 20	L. Anem.	S-1
Polka	Sept. 13	Disbud	Nov. 20	L. Anem.	P-2
Illini Formal	Sept. 13	Disbud	Nov. 23	Int. Pom.	P-3

12-WEEK VARIETY

Beautiful Lady	Sept. 20	Disbud	Nov. 25	L. Anem.	S-3
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MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 76 FOR QUANTITY PRICES.



DELAWARE—NEW REDDISH BRONZE

CHRYSANTHEMUM MANUAL



New Introductions—Garden Varieties

WHITE

CRYSTAL MAID

Sept. 12

A creamy white pompon flowering September 12. Very compact growth with an abundance of show flowers. Another good addition to spring garden pots or as a showy border plant.

GARDENIA

Sept. 25

Large white decorative type blooms with creamy white center. Flowers are very double measuring 3½" or more in diameter. A very profuse blooming variety combining extreme vigor and strong stems with excellent foliage. An outstanding large white mum blooming September 25th, possessing beautiful large form and a sturdy semi-dwarf growth habit. An outstanding garden mum.

YELLOW

SPODE

Oct. 8

A very perfectly incurved flower attaining a size of 4" when disbudded. Blooms are very full and round. The color is clear luminous yellow. Compact bushy habit with strong upright stems. A very free flowering large mum suitable for garden or pots either Fall or Spring. Normal blooming date is the first week in October. Its large round yellow blooms and compact bushy habit makes this variety an ideal pot mum.

HONEYSWEET

Oct. 15

Early large golden yellow incurved. Can be flowered early enough for the garden. Will make a full compact pot plant which appears to be heat tolerant under the shade cloth. Matures October 15.

VALIANT

Oct. 15

Large light yellow incurved flowering October 15. Luxuriant dark green foliage with short internodes. Makes an attractive pot plant mid March to January.

RED

ALPINA

Sept. 25

Glowing red large pompon type garden mum blooming about September 25th. Blooms are full double possessing very good substance. They are carried on erect sprays on bushy medium dwarf plants with very good foliage. An excellent red early garden mum derived from the Rubellum strains which combines good color with vigor and hardiness.

IRON MOUNTAIN

Oct. 1

An intriguing deep red pompon changing to a reddish rust as the flower matures. A plant that can easily be displayed well as a showy border or useful as a home cut flower. Matures around October 1. Very good addition to the spring blooming varieties for pots.

PINK

SONNY

Oct. 1

A true pink clean growing pompon that shades well in the cloth house and holds its color. Stiff stems with rigid pedicles. Makes a fine addition to the garden variety cut flower class. Matures October 1.

NORTHERN QUEEN

Oct. 5

Large double flowered pink decorative variety with center shading to deep pink. A very durable and lasting flower. Sturdy medium dwarf growth habit with very strong stems. Beautiful shiny glossy foliage reflecting its Arctic heritage. An excellent large pink garden mum which blooms the first week in October.

Prices above 9 varieties, each: 100 Cuttings for \$15.00; 300-450, \$14.25 per 100; 500-950, \$13.50 per 100; 1000-2450, \$12.75 per 100; 2500-up \$12.00 per 100.

SPECIAL COLLECTIONS OF GARDEN VARIETIES

For growers who are not familiar with Garden Varieties, but who want a well-balanced assortment, we offer the following collections which include the better varieties.

MINIMUM COLLECTION IS 300 CUTTINGS

SPECIAL No. 1

Rooted Cuttings
Our selection
Ten taller varieties
for cutting.

SPECIAL No. 2

Rooted Cuttings
Our selection for
pots or bedding.

SPECIAL No. 3

Rooted Cuttings
Our selection
Half for cutting
Half for bedding.

SPECIAL No. 4

Rooted Cuttings
Our selection for
Easter, Mother's Day
or Memorial Day Pots
(Specify Blooming Date)

SPECIAL No. 5

Cushion Varieties
Only.

PRICES PER 100

300-450	500-1150	1200-2350	2400 Up
5.70	5.40	5.10	4.80

PRICES PER 100

50-250	300-450	500-950	1000-2450	2500 Up
6.00	5.70	5.40	5.10	4.80
6.50	6.15	5.85	5.50	5.20
7.00	6.65	6.30	5.95	5.60
7.50	7.15	6.75	6.40	6.00
8.00	7.60	7.20	6.80	6.40
9.00	8.55	8.10	7.65	7.20
10.00	9.50	9.00	8.50	8.00
15.00	14.25	13.50	12.75	12.00



CHRYSANTHEMUM MANUAL

Garden Varieties

SYMBOLS — (L) Large — (D) Decorative — (P) Pompon — (C) Cushion — (S) Single — (B) Button — (C-F) Carnation Flowered.

*Recommended for Mother's Day pot plants — pinched and short day treatment same day.

D Varieties recommended as better when disbudded.

Variety	Size and Type	Color	Height	Matures	Price per 100
WHITE					
Osage.....	(CD)	White	Med.	Sept. 5	12.50
Candlelight.....	(D)	Ivory	Med.	Sept. 5	6.00
D D. Ahrens.....	(D)	White	Tall	Sept. 10	6.00
Paper White.....	(D)	White	Med.	Sept. 10	7.50
*Crystal Maid (New).....	(D)	Cream	Short	Sept. 12	15.00
*Chris Columbus.....	(LD)	Cream	Tall	Sept. 15	6.50
Wh. Cushion.....	(CD)	White	Short	Sept. 15	6.00
*Calcite.....	(D)	Cream	Med.	Sept. 15	6.00
*Martens White.....	(LD)	White	Med.	Sept. 15	8.00
Powderpuff (Cushion).....	(CD)	White	Short	Sept. 15	7.50
Polar Ice.....	(LD)	White	Med.	Sept. 15	7.00
*Wh. Bounty.....	(B)	White	Tall	Sept. 15	7.00
D Wh. Tower.....	(LP)	Cream	Tall	Sept. 15	6.50
*Snowspoon.....	(Spoon)	White	Med.	Sept. 18	15.00
Wh. Wonder.....	(LP)	Ivory	Med.	Sept. 25	7.50
*Shalimar (H).....	(LP)	Cream	Med.	Sept. 25	7.50
*Ostosa.....	(CP)	White	Short	Sept. 25	10.00
Wh. Cloud.....	(D)	White	Tall	Sept. 25	7.50
*Pepita.....	(B)	White	Med.	Sept. 28	7.00
Gardenia (New).....	(LD)	White	Med.	Oct. 1	15.00
Snow Fall.....	(D)	White	Med.	Oct. 1	7.00
Ermine.....	(D)	Ivory	Med.	Oct. 1	7.00
*Marshmallow.....	(M-Sgl)	White	Med.	Oct. 5	9.00
Limelight.....	(P)	White	Med.	Oct. 5	10.00
*Lyric.....	(CS)	White	Short	Oct. 5	7.50
Avalanche.....	(LD)	Cream	Tall	Oct. 5	7.50
*Horizon.....	(P)	White	Med.	Oct. 5	7.00
Youdath's Wh.....	(LD)	White	Med.	Oct. 5	6.00
Snow Elf.....	(P)	White	Med.	Oct. 8	7.00
*Classic.....	(B)	White	Tall	Oct. 10	7.00
*Maestro.....	(CP)	White	Short	Oct. 10	7.50
Wh. Spoon.....	(Spoon)	White	Med.	Oct. 10	6.00
*Silverplate.....	(D)	White	Med.	Oct. 12	7.00
Silver Ball.....	(P)	White	Tall	Oct. 15	6.00
Irene.....	(B)	White	Med.	Oct. 15	7.00
Norona.....	(SP)	White	Med.	Oct. 15	7.00

YELLOW

Pathfinder.....	(C-F)	Lemon	Med.	Aug. 28	12.50
*Early Gold.....	(P)	Golden	Short	Sept. 5	7.50
Golden Hours.....	(P)	Chrome Yel.	Med.	Sept. 8	6.50
Delight.....	(P)	Golden	Med.	Sept. 8	8.00
Genista.....	(C)	Canary	Med.	Sept. 12	10.00
Yel. Supreme (H).....	(C)	Brt. Lemon	Short	Sept. 15	6.00
*Pomponette.....	(P)	Golden	Short	Sept. 15	6.50
Yel. Cushion.....	(CD)	Light Yel.	Short	Sept. 15	6.00
*Yel. Chris Col.....	(LD)	Brt. Lemon	Med.	Sept. 15	6.50
*Early Yellow.....	(B)	Dp. Lemon	Short	Sept. 15	6.00
Golden Carpet.....	(CP)	Golden	Short	Sept. 15	7.00
*D Ming.....	(P)	Orange Yel.	Med.	Sept. 18	8.00
*Sept. Sunshine.....	(S)	Brt. Lemon	Med.	Sept. 20	6.50
*Aglow.....	(P)	Orange	Med.	Sept. 20	12.50
Wychwood.....	(LP)	Canary	Med.	Sept. 20	6.50
Canary Wonder.....	(P)	Canary	Med.	Sept. 25	7.00
Golden Wonder (New)....	(P)	Golden	Med.	Sept. 25	10.00
Chas. Nye.....	(LP)	Dp. Lemon	Tall	Sept. 25	7.00
Golden Sunset.....	(LD)	Copper Gold	Med.	Sept. 25	7.00
*Honeycomb.....	(P)	Golden	Med.	Sept. 25	7.50

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 93 FOR QUANTITY PRICES.

CHRYSANTHEMUM MANUAL

Gloekner

Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price per 100
YELLOW (Cont'd)					
*Moonlight.....	(D)	Br. Yellow	Med.	Sept. 25	8.00
Lee Powell.....	(LD)	Chinese Yel.	Tall	Sept. 25	8.00
Tangerine.....	(LD)	Dp. Orange	Med.	Sept. 25	6.50
Flaxen Beauty.....	(LD)	Lt. Lemon	Med.	Oct. 1	8.00
Tranquility.....	(D)	Lt. Lemon	Med.	Oct. 1	15.00
*Chiquita.....	(B)	Dp. Lemon	Med.	Oct. 1	6.50
James Eadie.....	(LP)	Dp. Chrome	Med.	Oct. 5	6.50
Yel. Avalanche.....	(LD)	Lt. Lemon	Tall	Oct. 5	6.50
*Garland.....	(S)	Lemon	Short	Oct. 5	7.50
Polaris.....	(S)	Golden Buff	Med.	Oct. 5	7.00
*D Mrs. Rojan.....	(LD)	Dp. Chrome	Med.	Oct. 5	6.50
Sunstone.....	(Spoon)	Lt. Yellow	Tall	Oct. 8	10.00
*Spode (New).....	(L-Inc.)	Lemon	Short	Oct. 8	15.00
*Yel. Spoon.....	(Spoon)	Lt. Yellow	Med.	Oct. 10	7.00
Treasure.....	(P)	Golden	Tall	Oct. 10	7.50
Golden Spoon.....	(Spoon)	Golden	Med.	Oct. 10	6.00
*Yel. Blanket.....	(B)	Br. Lemon	Med.	Oct. 10	6.50
Br. Forecast.....	(P)	Br. Lemon	Med.	Oct. 10	7.00
*Goldrush.....	(S)	Lemon	Med.	Oct. 10	7.00
Sweepstake.....	(P)	Lemon	Med.	Oct. 12	7.50
*Lemonade.....	(P)	Ivory Yel.	Med.	Oct. 12	7.00
*Gold Lode.....	(L-Inc.)	Golden	Med.	Oct. 15	7.00
Rodell Imp.....	(B)	Lt. Lemon	Med.	Oct. 15	6.00
Yel. Irene.....	(B)	Lt. Lemon	Med.	Oct. 15	6.50
Buttercup (H).....	(L-Inc.)	Golden	Short	Oct. 15	12.50
*Valiant (New).....	(L-Inc.)	Lt. Golden	Med.	Oct. 15	15.00
*Honeysweet (New).....	(L-Inc.)	Golden Yel.	Med.	Oct. 15	15.00
Sarasota.....	(P)	Br. Lemon	Med.	Oct. 15	12.50

BRONZE and RED

Glow Worm.....	(D)	Or. Scarlet	Short	Sept. 8	7.50
Early Harvest.....	(CD)	Mah. Orange	Short	Sept. 8	7.50
Harbinger.....	(D)	Golden Br.	Short	Sept. 8	7.50
*W. P. Snyder.....	(LP)	Apr. Orange	Med.	Sept. 10	7.50
Autumn Song.....	(D)	Wine Rose	Med.	Sept. 10	6.50
Autumn Tide.....	(D)	Coral Salmon	Med.	Sept. 15	6.50
Apache.....	(LD)	Red & Gold	Med.	Sept. 15	12.50
Red Gold.....	(B)	Red & Gold	Med.	Sept. 15	7.00
Orloma.....	(C)	Apr. Bronze	Med.	Sept. 15	10.00
Flamboyant.....	(D)	Orange Br.	Med.	Sept. 15	15.00
Overly.....	(C)	Bronze	Med.	Sept. 20	12.50
Sept. Bronze.....	(B)	Golden Br.	Med.	Sept. 20	6.00
Goblin.....	(P)	Golden Br.	Tall	Sept. 20	7.00
Red Glow.....	(P)	Dark Red	Med.	Sept. 20	7.50
*Orsona.....	(C)	Red & Bronze	Med.	Sept. 20	10.00
Scarlet Crimson.....	(D)	Br. Red	Med.	Sept. 20	6.50
Mme. Cadillac.....	(P)	Rasp. Wine	Short	Sept. 20	10.00
Rouge Cushion.....	(C)	Br. Red	Short	Sept. 25	8.00
Br. Wonder.....	(P)	Rosewood	Med.	Sept. 25	7.00
Champ. Cushion.....	(CD)	Dp. Bronze	Short	Sept. 25	6.00
Comd. Cushion.....	(CD)	Red	Short	Sept. 25	6.00
Alpena (New).....	(D)	Red	Med.	Sept. 25	15.00
Mahogany Cushion.....	(CD)	Jasper Red	Short	Sept. 25	6.00
Elite Cushion.....	(C)	Salmon Br.	Short	Sept. 25	8.00
Marionette.....	(P)	Rust Red	Med.	Sept. 25	7.50
Holiday (H).....	(P)	Golden Br.	Med.	Sept. 25	8.00
*Remembrance.....	(LD)	Dp. Carmine	Med.	Sept. 28	7.50
Kath. Lehman.....	(LD)	Orange Br.	Med.	Sept. 28	7.00
Admiration.....	(LD)	Salmon Fawn	Med.	Sept. 28	6.50
*Iron Mountain (New).....	(P)	Deep Red	Med.	Oct. 1	15.00
Jubilee (H).....	(P)	Crimson	Med.	Oct. 1	9.00
Mogul.....	(P)	Orange Rust	Med.	Oct. 1	8.00
Reverie.....	(D)	Buff Bronze	Med.	Oct. 1	12.50
Magnificent.....	(LD)	Plum Red	Tall	Oct. 1	8.00
Red Cloud (Cushion).....	(CD)	Scarlet	Med.	Oct. 1	7.00
Red Riding Hood.....	(D)	Br. Red	Med.	Oct. 1	6.50

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 93 FOR QUANTITY PRICES.



CHRYSANTHEMUM MANUAL

Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price per 100
BRONZE and RED (Cont'd)					
Sam Williston (Cushion) ..	(CS)	Deep Red	Short	Oct. 1	6.50
Gondolier	(LD)	Crimson	Med.	Oct. 1	12.50
Bonfire	(D)	Br. Red	Med.	Oct. 1	7.50
Regina	(LD)	Apricot Br.	Med.	Oct. 1	10.00
Card. Spoon	(Spoon)	Red Bronze	Med.	Oct. 1	7.00
Firecracker	(D)	Mahogany	Tall	Oct. 5	7.50
Cydonia	(LD)	Mahogany	Tall	Oct. 5	6.00
*Sept. Cheer	(S)	Cherry Red	Med.	Oct. 5	6.00
Burgundy	(LD)	Wine Red	Tall	Oct. 5	6.00
Ruby Pompon	(P)	Ruby Crimson	Med.	Oct. 5	6.00
Red Velvet	(LD)	Dk. Crimson	Med.	Oct. 5	7.50
*Mona	(P)	Rust Bronze	Med.	Oct. 5	7.50
Avalon	(P)	Orange Bronze	Tall	Oct. 5	8.00
Courageous	(LD)	Dark Ruby	Med.	Oct. 5	6.50
*Mrs. Du Pont	(LD)	Coral Buff	Tall	Oct. 5	7.00
Buckeye	(P)	Salmon Br.	Med.	Oct. 8	9.00
Beacon	(LD)	Coral Apr.	Tall	Oct. 8	7.00
Aviator	(P)	Copper	Med.	Oct. 8	6.50
Success	(LP)	Dp. Crimson	Med.	Oct. 8	7.50
Miguel	(D)	Rasp. Red	Tall	Oct. 8	10.00
*D Calumet (H)	(D)	Apricot	Med.	Oct. 10	10.00
Huntsman	(LD)	Scarlet Or.	Tall	Oct. 10	7.50
Carnival	(LP)	Burnt Orange	Med.	Oct. 10	7.00
*Caravan	(LD)	Salmon Br.	Med.	Oct. 10	7.50
Blueblood	(D)	Amaranth Red	Tall	Oct. 10	7.50
Carmine Queen	(LP)	Carmine	Tall	Oct. 10	7.50
*Bamboo	(S)	Buff Orange	Tall	Oct. 10	7.50
Fireside	(D)	Burnt Orange	Tall	Oct. 10	7.50
Admiral	(D)	Dark Red	Med.	Oct. 12	7.50
Fashion	(D)	Rosewood	Med.	Oct. 12	7.50
Witchery	(D)	Golden Br.	Med.	Oct. 12	7.00
*James Stewart	(P)	Apr. Gold	Tall	Oct. 15	7.00
Robinhue	(LD)	Dark Red	Tall	Oct. 15	7.50
Rajah	(S)	Scarlet	Tall	Oct. 15	7.50
Chopin	(L-Inc.)	Lt. Bronze	Med.	Oct. 15	12.50
Arvis	(P)	Bronze	Tall	Oct. 15	12.50

PINK and LAVENDER

Gladness	(D)	China Rose	Short	Aug. 28	7.00
Cecil Beed	(D)	Deep Lav.	Med.	Sept. 1	8.00
Dr. Longley	(D)	Rose Pink	Med.	Sept. 1	8.00
Sal. Precose	(LD)	Salmon Pk.	Short	Sept. 1	7.00
Rosa	(C)	Rose Pink	Med.	Sept. 5	12.50
*Purple Star	(P)	Purple	Med.	Sept. 5	6.50
*Joan Helen	(D)	Dk. Purple	Med.	Sept. 10	6.50
*D Nye's Favorite	(D)	Lavender	Med.	Sept. 10	7.00
*Orchid Helen	(D)	Orch. Lavender	Med.	Sept. 10	7.50
Royal Robe	(D)	Purple	Med.	Sept. 15	9.00
Chippewa	(LD)	Br. Purple	Med.	Sept. 15	6.50
Fairbow	(P)	Lav. Pk.	Med.	Sept. 20	7.00
Tapestry	(LD)	Br. Pink	Med.	Sept. 20	7.00
Heather Bloom	(D)	Heather Pk.	Med.	Sept. 20	6.50
*Alert	(LD)	Dk. Purple	Med.	Sept. 20	6.00
Olive Longland	(LD)	Apr. Salmon	Med.	Sept. 25	6.00
*Cecelia	(C)	Purple	Short	Sept. 25	7.00
Imp. E. Wonder	(P)	Lavender	Med.	Sept. 25	7.50
*Spellbound	(D)	Lavender	Med.	Sept. 25	6.50
Capt. J. Smith	(C)	Lav. Pink	Short	Sept. 25	6.00
*Maj. Cushion	(C)	Lavender	Short	Sept. 25	6.50
Rosita	(B)	Lav. Rose	Med.	Sept. 28	6.50
Malinda Brown	(P)	Lav. Rose	Med.	Sept. 28	8.00
Betty	(LD)	Pk. Rose Ctr.	Tall	Sept. 28	7.50

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 93 FOR QUANTITY PRICES.

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Garden Varieties

Variety	Size and Type	Color	Height	Matures	Price per 100
PINK and LAVENDER (Cont'd)					
Misty Maid.....	(D)	Light Pink	Med.	Sept. 28	7.00
Pat. Lehman.....	(D)	Peach Pink	Tall	Sept. 28	7.00
Fascination.....	(LD)	Lav. Pink	Med.	Oct. 1	9.00
*D Myrtle Walgreen.....	(LP)	Amar. Purple	Med.	Oct. 1	7.00
*Tiffany Rose.....	(S)	Deep Rose	Med.	Oct. 1	6.50
Sonny (New).....	(P)	Deep Lav.	Med.	Oct. 1	15.00
*Mischief.....	(CS)	Purple	Short	Oct. 1	12.50
Alex Cummings.....	(LD)	Deep Rose	Tall	Oct. 3	9.00
Northern Queen (New)....	(D)	Lavender	Med.	Oct. 5	15.00
*Petrisian Mauve.....	(D)	Mauve	Med.	Oct. 5	10.00
*Petrisian Pink.....	(D)	Lt. Pink	Med.	Oct. 5	10.00
*Petrisian Rose.....	(D)	Rose Pk.	Med.	Oct. 5	10.00
*Lav. Lady.....	(D)	Lav. Pk.	Tall	Oct. 5	7.50
Corona (H).....	(S)	Dp. Lav.	Tall	Oct. 10	10.00
Ponca.....	(SD)	Dk. Lav.	Short	Oct. 10	7.50
Dream Girl.....	(P)	Lt. Lav.	Med.	Oct. 10	7.50
*Courtier.....	(D)	Lav. Pk.	Med.	Oct. 10	7.50
*Time.....	(LP)	Lav.	Med.	Oct. 10	7.00
*Orch. Spoon.....	(Spoon)	Orch. Lav.	Med.	Oct. 10	7.50
Rose Spoon.....	(Spoon)	Lav. Rose	Med.	Oct. 10	6.00
Lassie.....	(LD)	Dk. Pink	Med.	Oct. 10	7.50
*Masquerade.....	(C)	Lav. Rose	Med.	Oct. 10	7.50
*Joybringer.....	(D)	Salmon Rose	Short	Oct. 10	7.00
Ronnie.....	(B)	Dk. Lav.	Med.	Oct. 12	7.50
Allegro.....	(C)	Shrimp Pk.	Med.	Oct. 12	7.50
Adagio.....	(P)	Raspberry Rose	Tall	Oct. 12	7.00
*Jewell.....	(P)	Lav. Pk.	Med.	Oct. 15	7.00
Sonnet.....	(P)	Salmon Pk.	Med.	Oct. 15	9.00
Enterprise.....	(P)	Amaranth	Tall	Oct. 15	8.00
Elizabeth Hood.....	(LD)	Lav. Pk.	Med.	Oct. 15	8.00

LARGE FLOWERING MUMS WHICH ARE NORMALLY GROWN IN THE GREENHOUSE, BUT ARE ALSO GOOD OUTSIDE, SHOULD BE DISBUDDED TO ONE BLOOM PER STEM.

WHITE

Silver Sheen.....	(M-Inc.)	White	Tall	Oct. 20	6.50
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YELLOW

Harvest Golden.....	(M-Inc.)	Dp. Golden	Tall	Oct. 10	7.50
*D Gold Lode.....	(M-Ref.)	Lemon	Tall	Oct. 15	7.00
Celestra.....	(M-Inc.)	Lemon	Tall	Oct. 15	7.00
Mrs. Kidder.....	(L-Inc.)	Dp. Lemon	Tall	Oct. 15	6.50
Buttercup (H).....	(M-Inc.)	Golden	Short	Oct. 15	12.50
Valiant.....	(M-Inc.)	Lt. Golden	Med.	Oct. 15	15.00
Honeysweet.....	(M-Inc.)	Golden Yel.	Med.	Oct. 15	15.00

BRONZE

Amber Bright.....	(M-Inc.)	Amber Bronze	Med.	Oct. 15	7.50
Chopin.....	(M-Inc.)	Lt. Bronze	Med.	Oct. 15	12.50

PINK

Pk. Chief.....	(L-Inc.)	Lavender	Tall	Oct. 15	6.50
Major Bowes.....	(L-Inc.)	Dp. Lav.	Tall	Oct. 15	7.50

PINCHING SCHEDULE FOR GARDEN CHRYSANTHEMUMS

Natural Flowering Date	Pinching Date for Cut Flowers	Pinching Date for Border Plants
Sept. 1	June 13	July 11
Sept. 15	June 20	July 18
Sept. 30	June 27	July 25
Oct. 10	July 4	Aug. 1
Oct. 15	July 11	Aug. 8

MINIMUM ORDER 50 CUTTINGS OF A VARIETY. SEE LIST ON PAGE 93 FOR QUANTITY PRICES.

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Flower Holiday Calendar

St. Valentine's Day • Easter • Mothers' Day • Memorial Day • Thanksgiving • Christmas

1955														1956													
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**SHADING CLOTH PRICES
AVAILABLE ON REQUEST**

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Gloeckner

CHRYSANTHEMUM CUTTING ORDER BLANK

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Sold By _____

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Special Instructions: _____

WHITE POMPONS**6-WEEK VARIETIES**

.....1001 OSTOSA P-1
1010 SEPTEMBER MORN S-1
1020 WHITE WONDER S-1
1030 CHRIS. COLUMBUS S-3

7-WEEK VARIETIES

.....1031 LIMELIGHT P-1
1040 AVALANCHE S-1
1050 WHITE CLOUD S-1
1060 HORIZON S-2
1070 MARSHMALLOW P-2
1080 MAESTRO S-1
1090 RENOWN S-1
1100 CLASSIC S-2
1110 SILVERPLATE S-2

8-WEEK VARIETIES

.....1120 CALIF. WHITE DAISY .. S-2
1130 IRENE S-2
1140 NORONA S-2
1141 CREAMPUFF P-2
1150 PRISTINE S-3
1160 MINONG S-1
1170 SILVERTONE P-2

9-WEEK VARIETIES

.....1180 POPCORN S-3
1190 WHITE POPCORN S-2
1200 KEEPSAKE S-2
1210 PINOCCHIO S-3
1220 SONGSTER S-3
1230 COTTONTOP S-1
1240 SHOOTING STAR S-1
1241 VESTA P-1
1250 ARCADIA S-2
1260 SILVER CLOUD P-2
1270 HALO S-3
1271 CREAM HALO P-1
1280 SEA GULL S-3
1290 WHITE DOTY S-3

10-WEEK VARIETIES

.....1300 FREEDOM P-3
1310 WHITETOP S-2
1320 MADONNA S-2
1330 KOLOWA S-1
1340 ENCORE S-4
1350 WHITE ANEMONE S-2
1360 WHITE MENSA S-2
1370 REV. BUSHNELL S-2
1380 MOONGLOW S-2
1390 PACESETTER P-3
1400 ILLINI IGLOO S-2
1410 SHASTA S-4
1411 CREAM SHASTA P-1
1420 DYNAMO S-2
1430 VESPER S-2
1440 NAGONA S-1
1450 LITTLE AMERICA S-3
1460 ILLINI SNOWDRIFT S-3
1470 MATCHLESS S-2
1471 WHITE MEMORIAL P-1

11-WEEK VARIETIES

.....1475 WHITE TAFFETA P-1
1480 SCULPTURE S-2
1490 WHITE NORMA S-2
1500 ESKIMO S-1
1520 SNOWFLURRY S-2
1521 ILLINI STARFLOWER P-1
1530 SEAFOAM S-2
1540 L. I. BEAUTY S-3
1550 HIGHBROW S-3
1560 NEVADA S-2
1570 PRISCILLA S-3
1580 ILLINI BOUNTIFUL S-1
1590 CRYSTAL BEAUTY S-2
1600 PARAMOUNT S-3
1610 BELRAY S-3

12-WEEK VARIETIES

.....1611 SILVERCREST P-1
1620 WHITE LADY S-1
1621 ILLINI PEACE P-1
1630 WHITE VALENCIA S-3
1640 CORDOVA S-2
1650 FORTUNE S-3
1660 MONARCH S-1
1661 CARRARA S-1

13-WEEK VARIETIES

.....1670 CAMEO S-3
1680 ACCLAIM S-2
1690 SWAN S-1
1700 SPANGLES S-2
1710 COTILLION S-2
1711 ORWAY P-1
1720 SNOWDROP S-2
1721 WHITE SNOWDROP P-1
1740 ILLINI STARLET P-3
1750 IMP. WHITE SUPREME .. S-2
1760 SNOW QUEEN S-2
1761 SNOWFLAKE P-1
1770 YUKON S-2
1771 SATELLITE S-2

14-WEEK VARIETIES

.....1780 TRENTON P-3
1790 SNOWCREST S-3
1791 CREAM SNOWCREST P-3
1800 SILVERSMITH S-4
1810 SNOWCAP S-3
1820 GARZA S-3
1840 HEIRLOOM S-2
1841 WEDDING BELLS P-1

15-WEEK VARIETIES

.....1850 REVELATION S-4
1860 SNOW S-3
1870 TALMEDA P-3
1880 ILLINI SNOWBOUND S-1

YELLOW POMPONS

6-WEEK VARIETIES

1331	MING	P-3
1390	YEL. CHRIS. COLUMBUS	S-3
1900	MOONLIGHT	P-3
1910	HONEYCOMB	S-1

7-WEEK VARIETIES

1920	POLARIS	S-2
1930	CHAS. NYE	S-2
1940	GARLAND	S-1
1941	DWIGHT DOUGLAS	P-1
1950	YELLOW SPOON	S-2
1951	SUNSTONE	P-1
1960	LEE POWELL	P-3
1970	GOLDRUSH	S-2
1980	TREASURE	S-1
1990	BRIGHT FORECAST	S-2
2000	LEMONADE	S-2
2010	SWEEPSTAKE	S-1

8-WEEK VARIETIES

2020	ARLORA	P-2
2021	SUNDEW	P-0
2040	MOONDRIFT	P-3

9-WEEK VARIETIES

2041	GOLDFINCH	P-0
2050	ORDALIA	P-2
2060	STARLIGHT	P-3
2070	GOLDEN HERALD	S-4
2080	GOLD COAST	S-1
2090	YELLOW DOT	S-1
2100	CREAM DOT	S-1
2101	WAMARA YELLOW	S-1
2110	AZTEC	P-1
2120	SUNUP	S-2
2130	YELLOW ARCADIA	S-2
2140	SAUTERNE	P-3
2150	GONDOLA	P-2
2160	MARY HALL	S-4
2170	YELLOW HALO	S-1
2180	SCHN. YEL. DAISY	S-3
2190	YELLOW DOTY	S-2

10-WEEK VARIETIES

2260	BARCOTLE	S-3
2270	BRIGADOON	S-2
2280	CRESCENDO	S-3
2290	CONSTELLATION	S-3
2300	PIXIE	S-2
2310	NUGGETS	S-2
2320	GOLDEN MENSA	S-1
2330	YELLOW SHASTA	S-4
2350	CALIF. YELLOW MENSA	S-1

11-WEEK VARIETIES

2351	YELLOW SCULPTURE	P-1
2360	PRINCETON	S-2
2370	THOROSRED	S-1
2380	GOLDEN CHORD	S-1
2390	FORTY NINER	S-4
2400	YELLOW FELLOW	S-2
2410	SUSANNE MILLER	S-2
2420	TACOMA	P-3
2440	YEL. L. I. BEAUTY	S-2
2450	YELLOW HIGH3POW	S-1
2460	LOLLIPOP	S-3
2470	PIPPIN	S-2
2480	KLONDIKE	S-3
2490	BOJANGLES	S-2
2500	YELLOW NEVADA	S-1
2510	ILLINI SUNSPOT	P-3
2511	MINGO CHIEF	P-1
2520	YELLOW PARAMOUNT	P-3

12-WEEK VARIETIES

2530	GOLDENROD	S-2
2540	ILLINI GOLD	S-2
2550	GOLDSMITH	S-3
2560	HIGHLANDER	S-2
2570	SUNNYSIDE	S-3

2580	CHAMPAGNE	S-1
2581	ILLINI WAMPUM	P-1
2590	YELLOW VALENCIA	S-2
2600	YELLOW CORDOVA	S-2
2610	YELLOW FORTUNE	P-2
2620	OMEGA	S-3
2621	GOLD MEDAL	P-1
2640	YELLOW GALAXY	S-1

13-WEEK VARIETIES

2650	GOLDEN HARVEST	S-1
2660	BRANDYWINE	S-1
2670	JACKPOT	S-2
2675	YELLOW ACCLAIM	P-3
2700	YELLOW CAMEO	S-2
2710	YELLOW SPANGLES	P-3
2720	CINDERELLA	S-2
2730	GOLDTONE	S-1
2731	YELLOW SATELLITE	P-1
2740	IMP. YELLOW SUPREME	S-2
2741	GOLDIE	P-1
2750	CHALLENGE	S-1
2760	CORSAIR	S-2

14-WEEK VARIETIES

2780	YELLOW RIVIERA	S-2
2800	YELLOW SNOWCREST	S-2
2810	YELLOW GARZA	S-2
2820	SEQUIN	S-1
2830	SHAMROCK	S-3
2840	DECEMBER GOLD	S-2
2850	SUNKIST	S-1
2850	VIBRANT	S-3
2870	REVELRY	S-2
2880	GOLD SEAL	P-3
2890	SUNRISE	S-2
2900	GOLDEN ANNIVERSARY	S-2

15-WEEK VARIETIES

2910	SIREN	S-3
2920	YULEFLAME	S-3
2930	YELLOW SNOW	S-3
2940	ILL. YEL. SNOWBOUND	S-1

BRONZE & RED POMPONS

6-WEEK VARIETIES

2941	ORLOMA	P-1
2943	ORSONA	P-1
2945	MME. CADILLAC	P-1
2950	W. P. SNYDER	S-1
2960	MARIONETTE	S-1
2970	MOGUL	P-3
2980	BONFIRE	S-1

7-WEEK VARIETIES

2981	REMEMBRANCE	S-1
2990	AVALON	P-3
3000	MONA	S-1
3001	REGINA	P-1
3010	HUNTSMAN	S-1
3020	FIRECRACKER	S-1
3030	BUCKEYE	P-2
3031	SUCCESS	S-1
3040	PANORAMA	P-3
3050	RED VELVET	S-1
3070	BAMBOO	S-1
3100	CARAVAN	S-1
3101	ORPHEUS	P-1
3110	CARMINE QUEEN	S-1
3120	CARNIVAL	S-2
3130	FIRESIDE	S-1
3150	NOCTURNE	S-1
3160	NYTODA	P-3
3190	MRS. DUFONT	S-2
3200	ADMIRAL	S-1
3210	MCKINNAID	P-1

8-WEEK VARIETIES

3220	ROBINHUE	S-1
3230	RED GLOW	S-1
3231	CALUMET	P-1
3250	RAJAH	S-1
3260	DETROITER	S-1
3270	JAMES STEWART	S-2
3280	TALISMAN	P-2
3290	PARADISE	P-2
3300	PALLETTE	P-2
3310	BR. MARY MCARTHUR	S-1

9-WEEK VARIETIES

3320	GAITY	P-2
3330	FIREBIRD	S-2
3340	BRONZE DOT	S-3
3350	BUCKSKIN	S-3
3360	HILARITY	P-2
3370	SENECA	S-2

10-WEEK VARIETIES

3380	FIREFLY	S-2
3390	BRONZE DAISY	S-2
3400	IMP. BR. DAISY	S-1
3410	EUCANEER	S-2
3420	RED SENECA	S-2
3430	BR. BUCKINGHAM	S-1
3440	NAVAHO	S-2
3450	RED DAISY	S-2
3460	IMP. RED DAISY	S-2
3461	JETFIRE	P-1
3470	COMANCHE	S-1
3480	FLAME GLOW	P-2
3490	ORANGE BEAUREGARD	S-1
3500	BEAUREGARD	S-3
3510	BUTTERSCOTCH	S-2
3520	CASSANDRA	S-2
3530	RED RUST	S-2
3540	RUBICON	S-3
3550	MAGICIAN	S-2
3560	BITTERSWEET	S-2
3570	GYPSY	S-3
3580	SAMOVAR	S-3
3590	SYLVANNA	S-2
3600	CHANTICLEER	S-1
3601	FIREGLEAM	P-1
3630	CHEVRON	S-2
3640	THE TITAN	S-1
3641	BARBARA FULLER	P-1
3650	BRONZE THYRA	S-1
3651	BRONZE PANDORA	P-1
3680	COPPERHEAD	S-3
3690	BR. LINDA LOU	S-2
3700	BRONZE TUXEDO	S-1
3710	GOLD BRAID	S-1
3730	BRONZE MASTERPIECE	S-2
3740	DK. BR. MASTERPIECE	S-2
3750	PARAGON	S-3
3760	ILLINI TANGIER	P-3
3770	RED KING	P-3
3780	CADET	P-3

11-WEEK VARIETIES

3790	MRS. DEWEY	S-2
3800	SHALIMAR	S-1
3810	RED PRINCETON	S-2
3820	ILLINI HONEY	S-1
3830	ILLINI REDHEAD	S-1

12-WEEK VARIETIES

3840	ILLINI WARRIOR	S-2
3850	LEGAL TENDER	S-2
3860	RUSTICON	S-3
3870	THELMA	S-2
3871	RUBAIYAT	P-1
3880	BOURBON	S-1
3890	CAROUSEL	S-1
3900	FESTIVAL	S-2
3910	BRONZE MINUET	S-2
3911	DK. BR. MINUET	P-1
3920	RED ROLINDA	S-2
3930	ILLINI PEEWEE	P-3
3940	BR. GOLDSMITH	S-3
3950	WANAKAH	P-3
3960	FALCON	S-2
3970	YOLANDA	S-1
3980	INDIAN HEAD	S-2
3990	APRICOT VALENCIA	S-2
4000	CRIMSON VALENCIA	S-2
4010	AMBERINA	S-1
4011	RED HERITAGE	P-1
4020	GALAXY	S-2
4021	ORANGE GALAXY	P-1

13-WEEK VARIETIES

4030	DAZZLER	S-1
4040	BP. ENCHANTRESS	S-1
4050	DEBONAIR	S-2
4060	MAHOGANY VIKING	S-1
4070	IMP. BR. SUPREME	S-1
4080	PED SUPREME	S-1
4081	CAVALCADE	S-1
4090	HARLEQUIN	S-1
4100	HOLIDAY	S-2
4120	PAGEANTRY	S-1
4130	CHRISTMAS STAR	S-3
4150	BRONZE MINSTREL	S-2
4160	DK. BR. MINSTREL	S-1
4161	RED MINSTREL	P-1

14-WEEK VARIETIES

4170	BRONZE RIVIERA	S-2
4180	CLARET	S-1
4190	TOPAZ	S-1
4200	CHRISTMAS GREETING	S-3
4210	SAPONG	S-2
4220	MERRYMAKER	S-3
4230	POINSETTIA	S-2

PINK POMPONS

6-WEEK VARIETIES

4231	ORCHID HELEN	S-1
4240	EARLY WONDER	S-1
4241	SONNY	P-0
4250	SPELLBOUND	S-3
4251	ALEX CUMMINGS	P-2

7-WEEK VARIETIES

4260	PETRISIAN MAUVE	P-1
4270	PETRISIAN PINK	P-1
4280	PETRISIAN ROSE	P-1
4291	M GUEL	P-1
4290	COURTIER	S-1
4300	DREAM GIRL	S-1
4310	PONCA	S-1
4311	CORONA	P-1
4330	LASSIE	S-1
4340	SERENADE	S-1
4350	ORCHID SPOON	S-1
4360	JOYBRINGER	S-2
4370	BRIGADIER	S-1
4380	SWEETHEART	S-1
4390	ALLEGRO	S-1
4400	MASQUERADE	S-1
4410	RONNIE	S-1
4440	LAVENDER LADY	S-1
4450	SONNET	P-2
4460	BETTY	S-1

8-WEEK VARIETIES

4470	FAIRYLAND	P-2
4480	MAYFAIR	P-3
4490	JESTER	P-2
4500	CITATION	P-2
4510	ENTERPRISE	P-3
4520	ELIZABETH HOOD	P-3
4530	JEWELL	S-2
4531	TSUKUSHI PINK	S-1
4540	MIRTH	P-2
4550	CAROLYN YOSICK	S-3
4570	MARY MCARTHUR	S-2
4580	PRELUDE	P-2

9-WEEK VARIETIES

4590	PINKETTE	P-3
4600	VOGUE	P-2
4620	REWARD	S-3
4630	PINK DOT	S-4
4640	JESSIE	S-2
4650	BETTY ROSE	S-1
4660	OCTOBER PINK	S-2
4680	BLUECHIP	S-1
4690	PK. CALIF. DAISY	S-2
4700	RAINBOW	S-1
4710	BALLERINA	S-2
4720	LILLIAN DOTY	S-2
4740	LOTUS	P-2
4750	TEMPO	P-2

10-WEEK VARIETIES

4751	PARISIENNE	P-1
4760	DREAMBOAT	S-2
4761	PORTRAIT	S-2
4770	DARK BULKELEY	S-2
4771	CRITERION	P-1
4780	PENNANT	P-3
4790	COVER GIRL	P-2
4800	NOBILITY	P-2
4810	PANDORA	S-2
4820	THYRA	S-2
4830	SOPRANO	S-2
4840	LINDA LOU	S-3
4850	DK. LINDA LOU	S-2
4860	TUXEDO	S-1
4861	HUMDINGER	P-1
4870	MASTERPIECE	S-3
4880	ROSE MASTERPIECE	S-2
4890	SALMON MASTERPIECE	S-2
4900	MEMORIAL	S-2
4901	ILLINI REGAL	P-1

11-WEEK VARIETIES

4910	TAFFETA	S-3
4920	CAROLE	P-2
4921	ARBUTUS	S-1
4930	DARK NORMA	S-2
4940	ORCHID BEAUTY	S-1
4950	BROCADE	S-2
4951	ILLINI SPRINGTIME	P-1

4960	POLKA	P-2
4970	NUGANO	P-2
4980	GRAND SLAM	S-2
4990	ALMEGA	S-2
5000	VIVACIOUS LADY	S-1
5020	PINK L. I. BEAUTY	S-2
5021	DK. PK. L. I. BEAUTY	S-1
5030	PINKY	S-1
5050	DK. PK. MAJORETTE	P-2
5060	MAJORETTE	S-1
5070	MINUET	S-3
5071	DK. PK. MINUET	P-1
5080	ILLINI FORMAL	P-3

12-WEEK VARIETIES

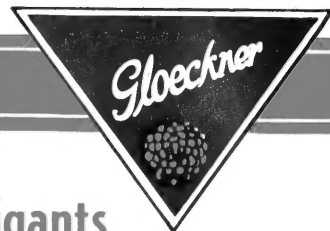
5090	PINK CLOUD	P-2
5100	PRINCESS	S-2
5110	HASEGAWA PINK	S-2
5120	BEAUTIFUL LADY	S-3
5130	VALENCIA	S-2
5140	DARK VALENCIA	S-3
5150	DUBONNET VALENCIA	P-3
5160	ORCHID VALENCIA	S-1
5170	SALMON VALENCIA	S-2
5180	HERITAGE	S-2

13-WEEK VARIETIES

5190	ENCHANTRESS	S-2
5200	DK. ENCHANTRESS	S-2
5210	ARGYLE	P-2
5220	DEBUTANTE	S-3
5240	IMP. DK. SUPREME	S-2
5250	MINSTREL	S-3
5251	DK. PK. MINSTREL	P-1
5260	LT. PK. MINSTREL	S-1
5261	IMP. PK. MINSTREL	P-1

14-WEEK VARIETIES

5270	RIVIERA	S-3
5280	SERRATED RIVIERA	P-3
5290	CORONET	S-1
5300	ROSALIND	S-2
5310	DEFIANCE	S-2
5320	MEDALLION	S-2
5330	ROSE MEDALLION	S-1
5331	LYNDA MCLANE	P-1



Insecticides, Fungicides and Fumigants

Aramite 15W			4 lb. bag	3.20
Deenate 50-W (DDT)	4 lbs.	2.25	48 lb. Case (12 - 4 lb. bags)	21.60
Fermate	3 lbs.	2.45	Case (36 lbs.)	25.80
Carron (24 cans)				
Fulex Parathion Fumigators	1,000 cu. ft.	10.50	5,000 cu. ft.	13.50
For Red Spiders, Aphids, and Thrips	2,000 cu. ft.	10.50	10,000 cu. ft.	16.50
			20,000 cu. ft.	25.00
Fulex Aphid-Smoke Fumigators	1,000 cu. ft.	10.00	5,000 cu. ft.	13.00
For Aphids and Adult White Flies	2,000 cu. ft.	10.00	10,000 cu. ft.	16.00
			20,000 cu. ft.	24.00
Fulex Spider-Mite Fumigators				
For Red Spiders, including some Parathion-resistant strains on carnations, chrysanthemums and snapdragons	1,000 cu. ft.	10.50	5,000 cu. ft.	13.50
	2,000 cu. ft.	10.50	10,000 cu. ft.	18.00
			20,000 cu. ft.	30.00
Isotox 1 (supplied in 50 lb. bags only)	50 lbs.	8.50		
Lindane 1½% Dust			50 lbs. (min.)	11.70
25% Wettable Powder			4 lbs.	11.00
Nicofume Liquid			gallon (8 lbs.)	13.80
Nicofume Pressure Fumigators	½ lb. cans (12 cans)			5.65
	1 lb. cans (12 cans)			10.70
NNOR			gal.	10.00
Optox (10% DDT)			gal.	12.00
Orthocide 50 W	5 lbs.	5.70	50-lb. drum	54.00
Plantfume 103	5,000 cu. ft. carton	— 36		10.50
	20,000 cu. ft. carton	— 12		12.00
Parathion Spray (15% Wettable)			4-lb. bag	3.50
Parzate (Powder)	3 lb. bags	2.85	Case (36 lbs.)	31.20
(Liquid)			5 gal. cans	9.50
P-40	25 lbs.	8.50	50 lbs.	16.25
			100 lbs.	31.00
Sodium Selenate			1 lb.	7.00
Vapotone XX			1 gal.	12.00
Zerlate	3 lbs.	2.45	case (36 lbs.)	25.80

Prices subject to change
without notice

For your other needs refer to your

Gloeckner Carnation Manual and Seed Catalog
or see your Gloeckner Representative

WHITE STANDARDS

8-WEEK VARIETIES

6010	SILVER SHEEN	S-3
6020	WHITE CHIEF	S-2
6030	CHRISTINA	S-2

9-WEEK VARIETIES

6031	SILVER QUEEN	P-1
6040	GRANITE STATE	S-3
6050	AMBASSADOR	S-2
6060	QUEENS LACE	S-3
6070	KAY TASHIMA	S-1
6080	WILSONS WHITE	S-2
6090	ALBATROSS	S-4
6091	WHITE MARY GARDEN	P-1

10-WEEK VARIETIES

6100	BETSY ROSS	S-3
6110	GIANT BETSY ROSS	S-4
6120	WHITE RAYONNANTE	S-2
6130	IND. WHITE	S-4
6140	RICHARD MANDEL	S-2
6150	JEAN ELIZABETH	S-3
6160	CRYSTAL QUEEN	S-2
6170	WHITE POCKETT	S-2
6180	MONUMENT	S-3

11-WEEK VARIETIES

6190	STERLING	S-2
6200	MARKETEER	S-3

6210	MEFO	S-4
6211	CREAM MEFO	S-2
6220	WHITE FRICK	S-2
6230	INDIANA MARKET	S-1

12-WEEK VARIETIES

6240	CHATTANOOGA	S-3
6250	DECEMBER GLORY	S-4
6260	MARGARET MOELLER	S-3

13-WEEK VARIETIES

6270	DECEMBER WHITE	S-2
6280	WHITE MISTLETOE	S-2
6290	SNOWLINE	S-2
6300	SMITHS WHITE	S-4
6301	SMITHS CR. WHITE	P-1

YELLOW STANDARDS

8-WEEK VARIETIES

6305	HARVEST GOLDEN	S-1
6310	GOLD LODE	S-2
6320	CELESTRA	S-2
6330	MRS. KIDDER	S-3
6340	BUTTERBALL	S-2
6350	BLAZING GOLD	S-4

9-WEEK VARIETIES

6360	SM. SUPERLATIVE	S-1
6370	MORIBANA	P-3
6380	YELLOW AMBASSADOR	S-2
6381	LUYONA	P-1
6400	SUNGLOW	S-2
6410	GOLDEN GLORY	S-2
6420	YELLOW LACE	S-3
6430	GOLD LACE	S-1
6440	HOOKED YEL. LACE	S-1

10-WEEK VARIETIES

6450	GOOD NEWS	S-4
6451	YELLOW IVANHOE	P-1
6460	IMP. IND. YELLOW	S-4
6470	IND. YELLOW	S-4
6480	DK. IND. YELLOW	S-4
6490	YEL. RAYONNANTE	S-2
6491	YEL. CURLY SPIDER	S-1
6500	YELLOW QUEEN	S-3
6510	JAMBOREE	S-1
6520	YELLOW BEAUTY	S-2
6530	YELLOW POCKETT	S-2
6540	YELLOW MONUMENT	S-3
6550	HONEYDEW	S-1

11-WEEK VARIETIES

6560	LORRAINE	S-1
6570	YELLOW MARKETEER	S-1
6580	BONNAFFON DELUXE	S-4

6590	FRIENDLY RIVAL	S-3
6600	YELLOW MEFO	S-4
6620	PURDUE	S-1
6630	HARVESTER	S-3
6640	MARIE DEPETRIS	S-3

12-WEEK VARIETIES

6650	DK. YEL. CHATT'NO'GA	S-1
6660	YEL. CHATTANOOGA	S-3
6670	GOLDEN PEARSON	S-3
6680	MRS. CALKINS	S-1
6690	SUNGOLD	S-3
6700	GOLDEN MRS. ROSS	S-3
6710	YELLOW MOELLER	S-2

13-WEEK VARIETIES

6720	GOLDEN MISTLETOE	S-1
6730	CHALICE	S-1
6740	TOBINS YELLOW	S-3
6750	METEORE	S-3
6760	DAUNTLESS	S-2

BRONZE & RED STANDARDS

8-WEEK VARIETIES

6761	MAYFORDS TRIUMPH	S-1
6765	AMBER BRIGHT	S-1

9-WEEK VARIETIES

6770	DALWIN	P-3
6780	HILDA BERGEN	S-2
6790	GLITTERS	S-1
6800	RED GLITTERS	S-1
6801	ANTIQUE	P-1
6810	IVANHOE	S-2
6820	APRICOT QUEEN	S-2
6830	DETROIT NEWS	S-4
6840	ROYAL BRONZE	S-2

10-WEEK VARIETIES

6850	WAIKIKI	S-1
6860	GENA HARWOOD	S-2
6870	NOMAGO	S-2
6880	MAMORU	S-1
6890	IND. BRONZE	S-4
6900	IND. GOLDEN BRONZE	S-1
6910	DK. IND. BRONZE	S-2
6911	DELAWARE	P-1
6920	ANACONDA	S-2
6930	OAKDALE	S-1
6940	BR. ORCHID QUEEN	S-2
6950	MRS. STAHELIN	S-2

6960	MRS. ROY	S-3
6970	GARNET KING	S-2

11-WEEK VARIETIES

6971	MRS. EISENHOWER	P-1
6980	BR. FRICK	S-2

12-WEEK VARIETIES

6990	GLADYS PEARSON	S-3
7000	OAK LEAF	S-3
7010	MUTOS CRIMSON	S-2

13-WEEK VARIETIES

7020	BRONZE MISTLETOE	S-2
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PINK STANDARDS

8-WEEK VARIETIES

7030	PINK CHIEF	S-3
7031	MAJOR BOWES	S-1

9-WEEK VARIETIES

7040	SUGARPLUM	S-1
7050	MRS. WALKER	S-1
7060	MARY GARDEN	S-2

10-WEEK VARIETIES

7070	J. W. PRINCE	S-2
7080	RAYONNANTE	S-2
7090	IND. PINK	S-4
7100	ORCHID QUEEN	S-2
7110	LAVENDER QUEEN	S-2
7120	DK. ORCHID QUEEN	S-3
7130	PEGGY HOOVER	S-1

7140	QUEEN OF PINKS	S-4
7150	PINK POCKETT	S-2

11-WEEK VARIETIES

7160	HELEN FRICK	S-3
7170	THANKS PINK	S-1
7180	ED SEIDWITZ	S-1

13-WEEK VARIETIES

7190	PINK MISTLETOE	S-4
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PRICE TABLE

Prices for 50 or multiples of 50 of a variety per shipment are indicated in this table.

Price Classifica- tion	PRICES PER 100					Price Classifica- tion	PRICES PER 100				
	50-250	300-450	500-950	1000-2450	2500 Up		50-250	300-450	500-950	1000-2450	2500 Up
S-4	6.00	5.70	5.40	5.10	4.80	P-3	8.00	7.60	7.20	6.80	6.40
S-3	6.50	6.15	5.85	5.50	5.20	P-2	9.00	8.55	8.10	7.65	7.20
S-2	7.00	6.65	6.30	5.95	5.60	P-1	10.00	9.50	9.00	8.50	8.00
S-1	7.50	7.15	6.75	6.40	6.00	P-0	15.00	14.25	13.50	12.75	12.00

Prices here will prevail until September 1, 1955

Write for complete list
of Garden Chrysanthemums

Fred C.
Gloeckner
&
Company,
Incorporated

15 EAST 26th STREET
At Madison Square
NEW YORK 10, N. Y.

